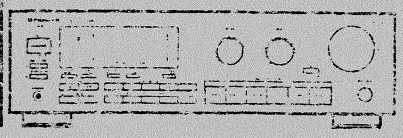
31869

PIONEER®
The future of sound and vision.

Service Manual



ORDER NO.
ARP2070

STEREO RECEIVER

SX-757

MODEL SX-757 HAS FOLLOWING VERSIONS :

Type	Power requirement	Export destination
HE	AC220V,240V (switchable)*	European continent
HB	AC220V,240V (switchable)*	United Kingdom
HEWZ	AC220V,240V (switchable)*	West Germany
KUC	AC120V only	U.S.A. and Canada

* Change the connection of the power transformer primary taps.

- **This manual is applicable to the SX-757/HE, HB and HEWZ types.**
- **As to the SX-757/HB and HEWZ types, refer to pages 42,43.**
- **As to the other types, refer to applicable service manuals.**
- **Ce manuel pour le service comprend les explications de réglage en français.**
- **Este manual de servcio trata del método ajuste escrito en español.**

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YV JUNE 1990 Printed in Japan.

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).
When servicing or handling circuit boards and other components which contain lead in in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

1. SAFETY INFORMATION

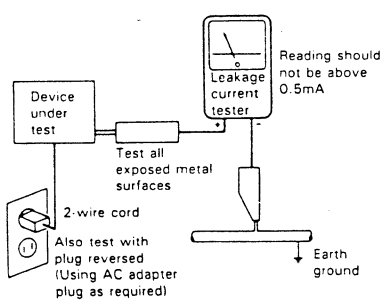
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Device under test
Leakage current tester
Reading should not be above 0.5mA
Test all exposed metal surfaces
2-wire cord
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. SPECIFICATIONS

[SX-757]

Amplifier Section

Continuous Power Output (both channels driven, DIN)*
1 kHz, T.H.D. 1 %, 4 Ω ..... 100 W + 100 W
20 Hz – 20 kHz, T.H.D. 0.03 %, 8 Ω ..... 65 W + 65 W
Dynamic power output (with EIA test signal)
2-4/8 Ω 160/130/90
Total Harmonic Distortion*
1 kHz, 65 W, 8 Ω ..... 0.008 %
Input (Sensitivity/Impedance)
PHONO ..... 2.5 mV/47 kΩ
CD, VCR/LINE, TAPE 1/DAT, TAPE 2 ..... 150 mV/47 kΩ
Phono Overload Level (T.H.D. 0.01 %, 1,000 Hz)
PHONO ..... 130 mV
Output (Level/Impedance)
TAPE REC ..... 150 mV/2.2 kΩ
Frequency Response
PHONO (RIAA Equalization) ..... 20 Hz to 20,000 Hz ±0.5 dB
CD, VCR/LINE, TAPE 1/DAT, TAPE 2
..... 10 Hz to 70,000 Hz $^{+0.5}_{-3.0}$ dB
Signal-to-Noise Ratio (DIN, continuous power/50 mW)
PHONO ..... 73 dB/62 dB
CD, VCR/LINE, TAPE 1/DAT, TAPE 2 ..... 88 dB/63 dB
Tone control
BASS ..... ± 8 dB (100 Hz)
TREBLE ..... ± 8 dB (10 kHz)

FM Tuner Section

Frequency range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... 10.8 dBf, IHF (0.95 μV/75 Ω)
50 dB Quieting Sensitivity
MONO ..... 15.3 dBf (1.6 μV/75 Ω)
STEREO ..... 37.1 dBf (19.5 μV/75 Ω)
Sensitivity (DIN)
MONO ..... 0.9 μV/75 Ω
STEREO ..... 29 μV/75 Ω
Signal-to-Noise Ratio
MONO ..... 80 dB (at 65 dBf)
STEREO ..... 76 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN)
MONO ..... 70 dB
STEREO ..... 68 dB
Distortion
STEREO ..... 0.3 % (1 kHz)
Alternate Channel Selectivity ..... 55 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (±1 dB)
Antenna Input ..... 300 Ω balanced, 75 Ω unbalanced

AM Tuner Section

Frequency range ..... 531 kHz to 1,602 kHz
Sensitivity
IHF, Loop antenna ..... 300 μV/m
Selectivity ..... 25 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... AM Loop Antenna

Miscellaneous

Power Requirements ..... a.c. 220 Volts ~, 50/60 Hz
Power Consumption ..... 580 Watts
Dimensions ..... 420 (W) X 125 (H) X 350 (D) mm
16-9/16(W) X 4-15/16 (H) X 13-12/16 (D)
Weight (without package) ..... 8.5 kg (18.8 lb)

Furnished Parts

FM T-type Antenna 1
AM Loop Antenna 1
Remote control unit 1
Dry cell battery (size "AA" (R6P/SUM-3)) 2
Operating Instructions 1

NOTE:
Specifications and design subject to possible modification without notice due to improvements.

* *Measured by audio spectrum analyzer.*

3. EXPLODED VIEWS, PACKING AND PARTS LIST

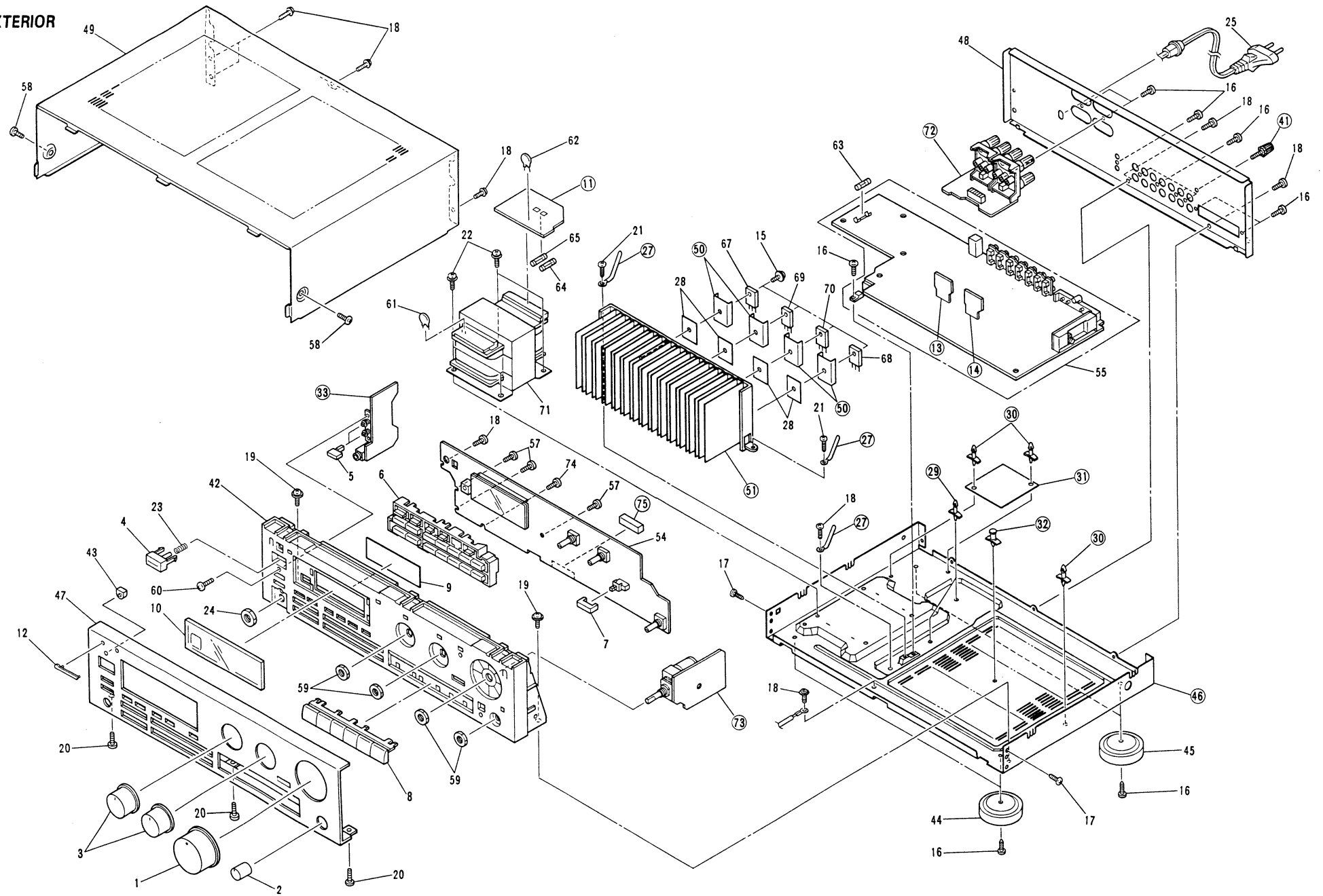
NOTES:
- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Parts list of Exterior and Packing

Mark	No.	Description	Parts No.
	1	KNOB (VOLUME)	AAB1152
	2	KNOB (BALANCE)	AAB1154
	3	KNOB (BASS, TREBLE)	AAB1171
	4	KNOB (POWER)	AAD1661
	5	KNOB (SPEAKER)	AAD1662
	6	KNOB (STATION)	AAD1810
	7	KNOB (DIRECT)	AAD1811
	8	KNOB (INPUT SERECTOR)	AAD1812
	9	PLATE (COLOR)	AAK1979
	10	PANEL	AAK1987
	11	TRANS ASSEMBLY	
	12	NAME PLATE (METAL)	AAM1029
	13	NSA LCH ASSEMBLY	
	14	NSA RCH ASSEMBLY	
	15	SCREW	ABA−297
	16	SCREW	ABA−298
	17	SCREW	ABA1007
	18	SCREW	ABA1009
	19	SCREW	ABA1011
	20	SCREW	ABA1048
	21	SCREW	ABA1052
	22	SCREW	ABA1054
	23	COIL SPRING	ABH1064
	24	NUT	ABN−065
⚠	25	AC POWER CORD	ADG1021
	26	FM ANTENNA	ADH1004
	27	BINDER	
	28	MICA SHEET	AEC1123
	29	PCB SUPPORT	
	30	PCB SUPPORT	
	31	BARRIER	
	32	PCB SPACER	
	33	SP SWITCH ASSEMBLY	
	34	.....	
	35	BATTERRIES ("AA"(R6P/SUM3))	
	36	FRONT PAD	AHA1336
	37	REAR PAD	AHA1337
	38	PACKING CASE	AHD1886
	39	LITERATURE BAG	
	40	SHEET	AHG1016

Mark	No.	Description	Parts No.
	41	TERMINAL SCREW	
	42	PANEL BASE	AMB1666
	43	INDICATING LENS	AMR1160
	44	INSULATOR ASSEMBLY	AMR1434
	45	INSULATOR ASSEMBLY	AMR1435
	46	CHASSIS	
	47	FRONT PANEL	ANB1408
	48	REAR PANEL	
	49	METAL BONNET	AZN1783
	50	SUB HEAT SINK	
	51	HEAT SINK	
	52	OPERATING INSTRUCTIONS (English/French/German/ Italian/Dutch/Swedish/ Portguese/Spanish)	ARE1168
	53	BATTERY COVER	AZN1970
	54	CONTROL ASSEMBLY	AWZ3001
	55	COMPLEX ASSEMBLY	AWZ3006
	56	REMOTE CONSOLE UNIT	AXD1153
	57	SCREW	BBZ26P080FMC
	58	SCREW	BBZ30P060FZK
	59	NUT	NK90FUC
	60	SCREW	VMZ30P060FMC
⚠	61	CKA(0.022/AC400V , C1)	ACG1030
⚠	62	POLYESTER CAPACITOR (C2)	CQMXA104J100
⚠	63	FUSE(T2.5A , FU1)	AEK−403
⚠	64	FUSE(T800mA , FU3)	AEK−031
⚠	65	FUSE(T800mA , FU4)	AEK−031
	66	LOOP ANTENNA ASSEMBLY	ATB1005
⚠	67	TRANSISTOR (Q1)	2SC3281
⚠	68	TRANSISTOR (Q2)	2SC3281
⚠	69	TRANSISTOR (Q3)	2SA1302
⚠	70	TRANSISTOR (Q4)	2SA1302
⚠	71	POWER TRANSFORMER (T1)	ATS1284
	72	SP TERMINAL ASSEMBLY	
	73	MOTOR VOL ASSEMBLY	
	74	SCREW	ABA1026
	75	SPACER	

EXTERIOR


1
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A
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C
D
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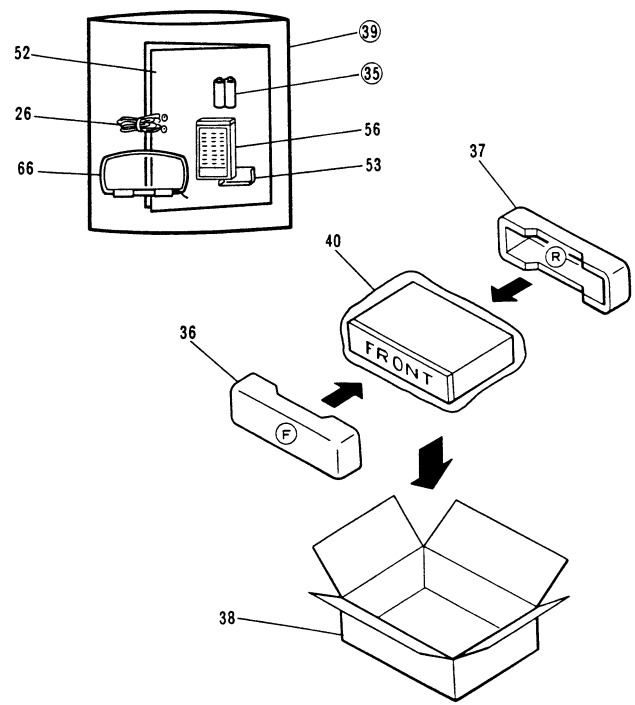
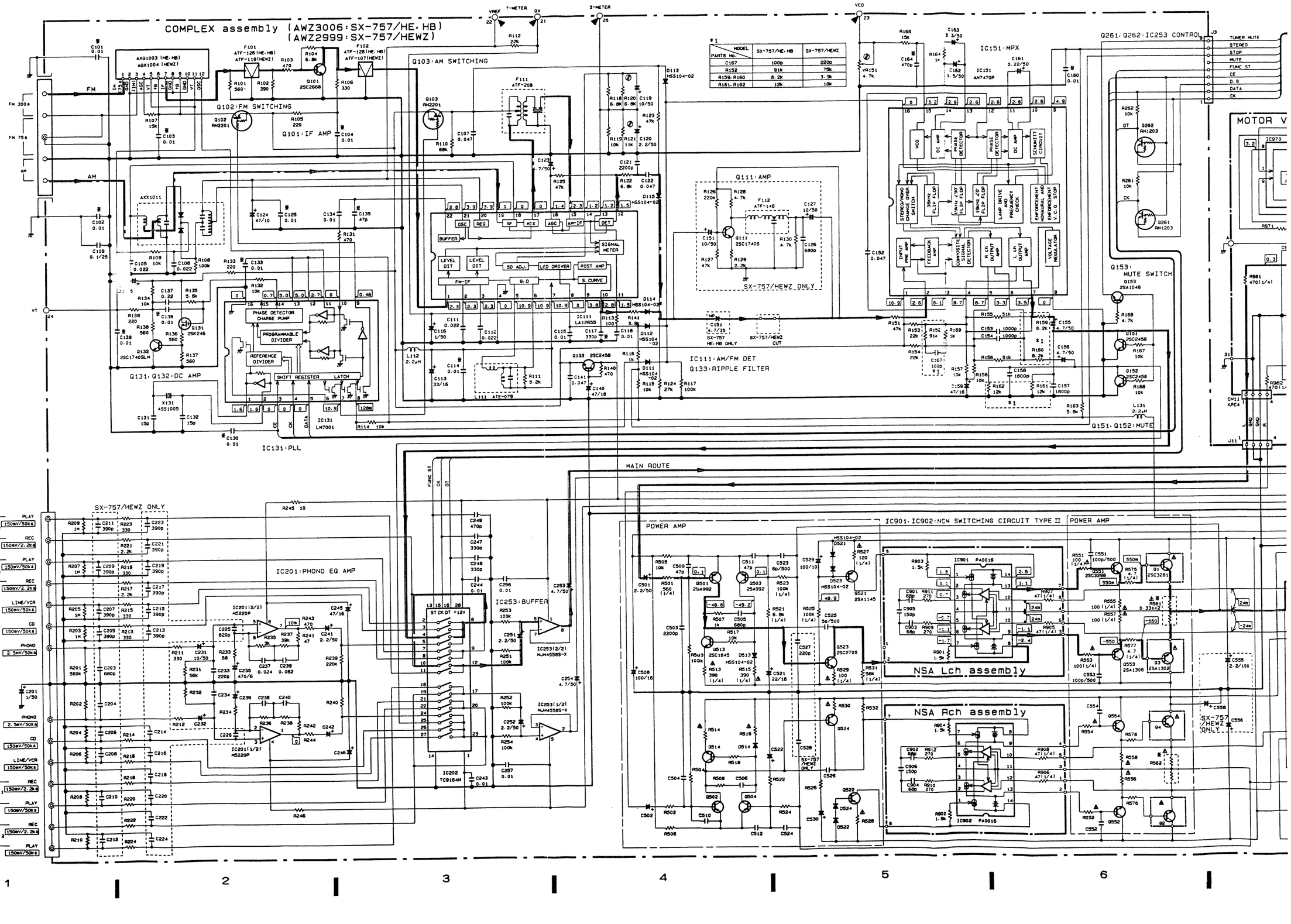
PACKING



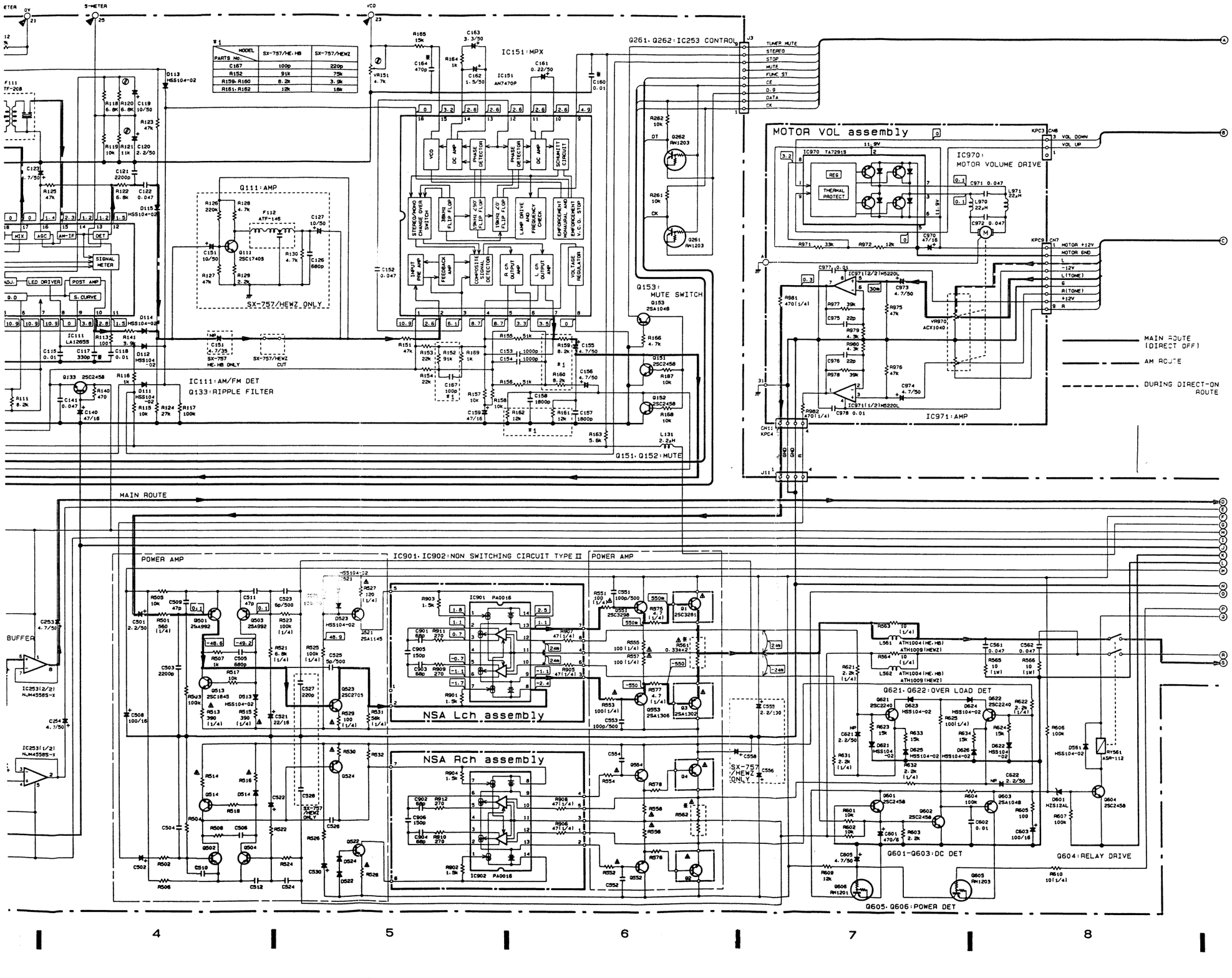
4. SCHEMATIC DIAGRAMS AND P.C.BOARDS CONNECTION DIAGRAM



MODEL / PARTS NO.	SX-757/HE.HB	SX-757/HEWZ
C167	100p	220p
R152	91k	75k
R159·R160	8.2k	3.9k
R161·R162	12k	18k

*1

AM



4 5 6 7 8 9

A B C D

FOR HE AND HB TYPES

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 E C B	E C B or E C B	Transistor
Q215 E C B	E C B or E C B	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513		Capacitor (Polarity)
C518		Capacitor (Non-polarity)

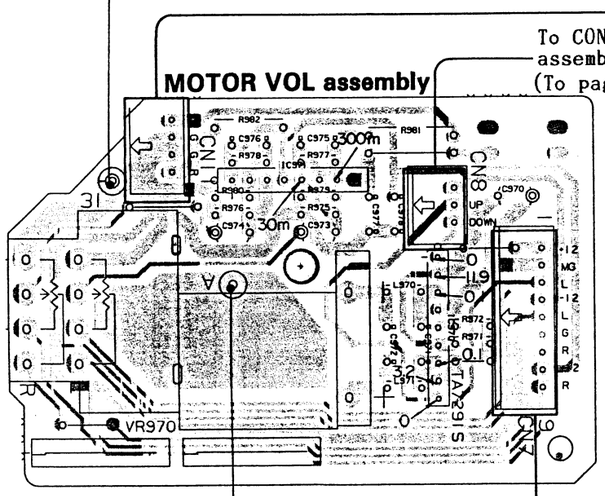
Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

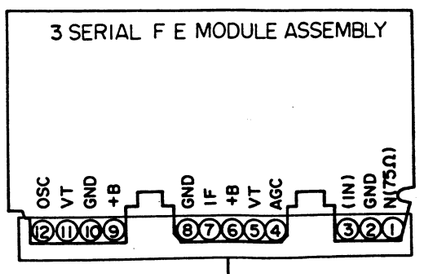
3. The capacitor terminal marked with ◎(double circles) shows negative termiant.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

To CONTROL assembly E (To page 19)

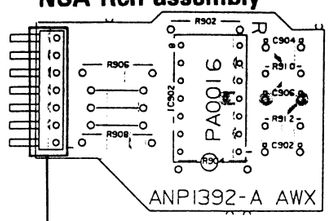
To CONTROL assembly J8 (To page 19)



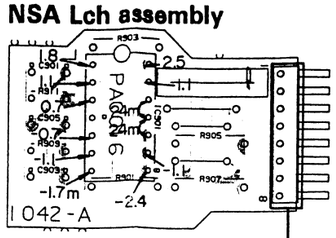
To CONTROL assembly J7 (To page 19)



NSA Rch assembly

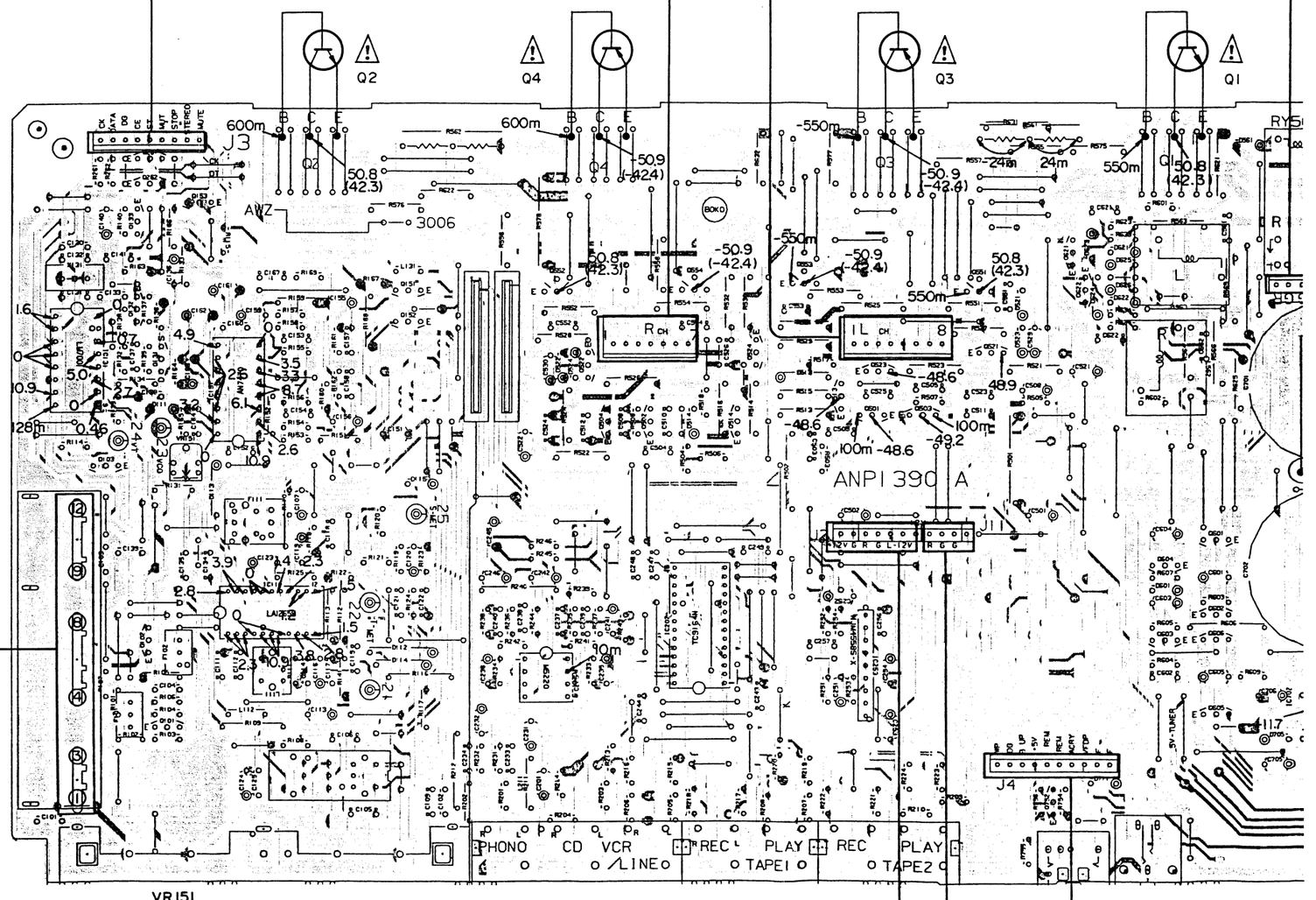


NSA Lch assembly



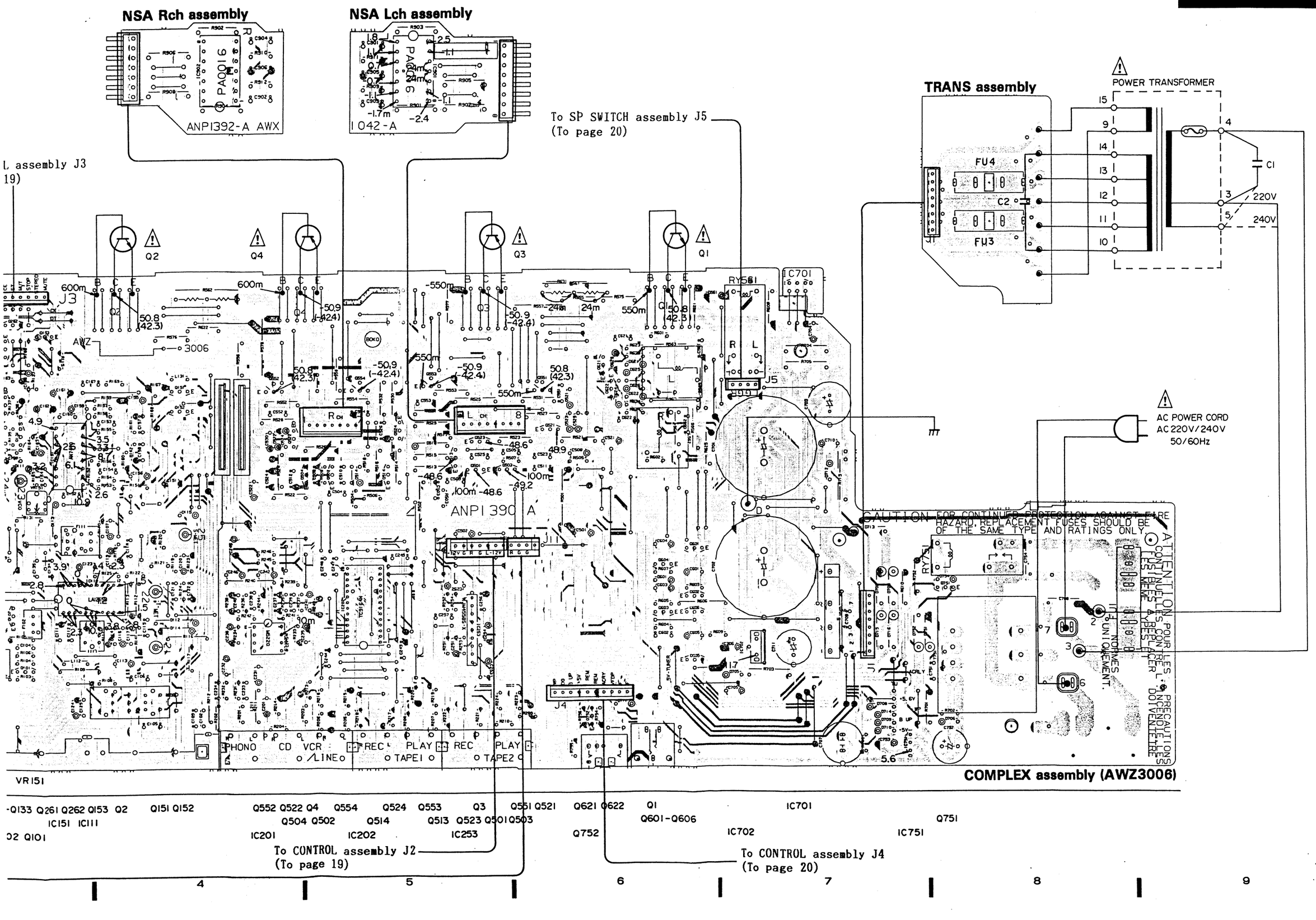
To SP SWITCH assembly J5 (To page 20)

To CONTROL assembly J3 (To page 19)

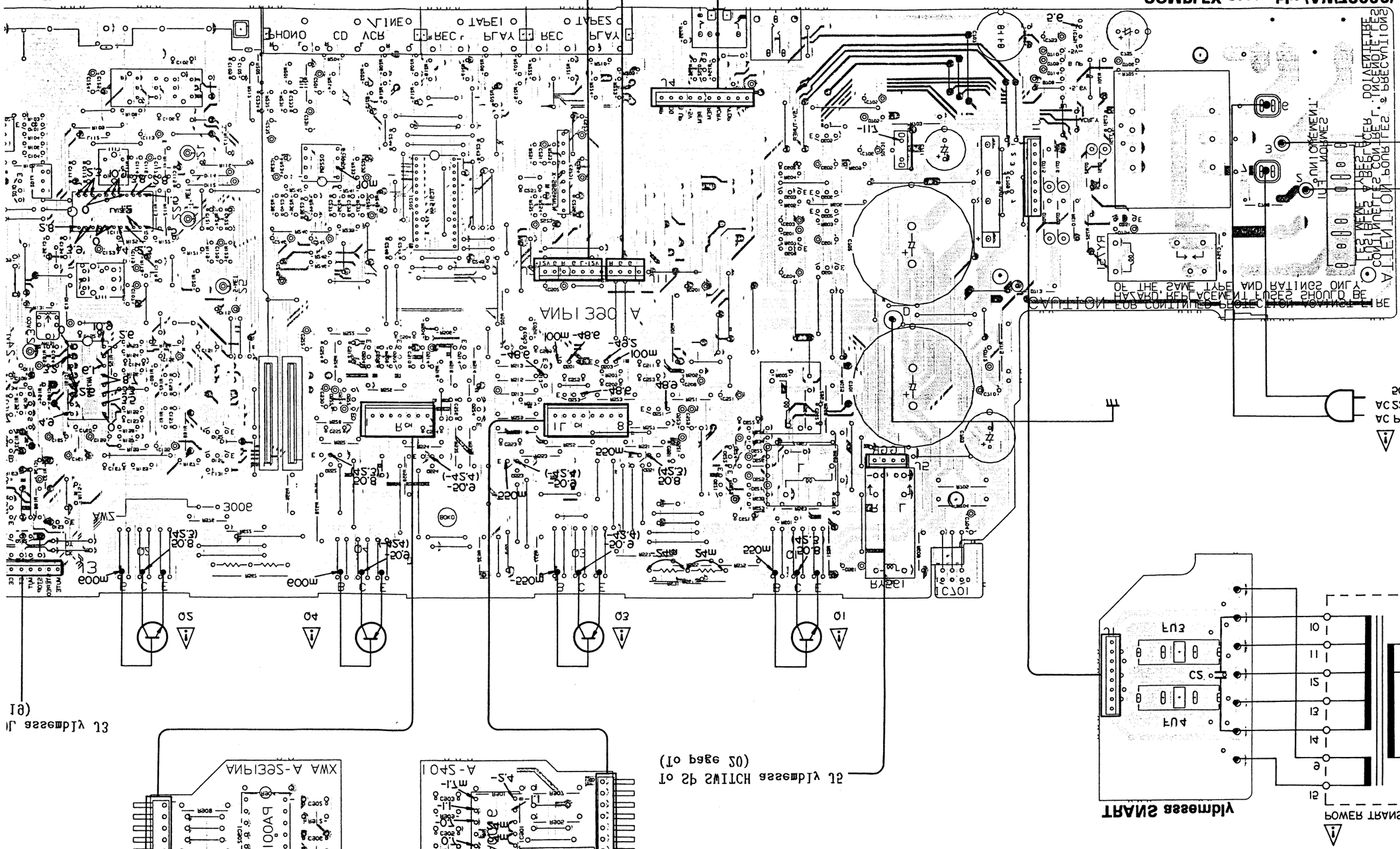


IC131 Q131-Q133 Q261 Q262 Q153 Q2 Q151 Q152 Q552 Q522 Q4 Q554 Q524 Q553 Q3 Q551 Q521 Q621 Q622 Q1
Q103 Q504 Q502 Q514 Q513 Q523 Q501 Q503 Q601-Q606
Q102 Q101 IC151 IC111 IC201 IC202 IC253 Q752 IC70

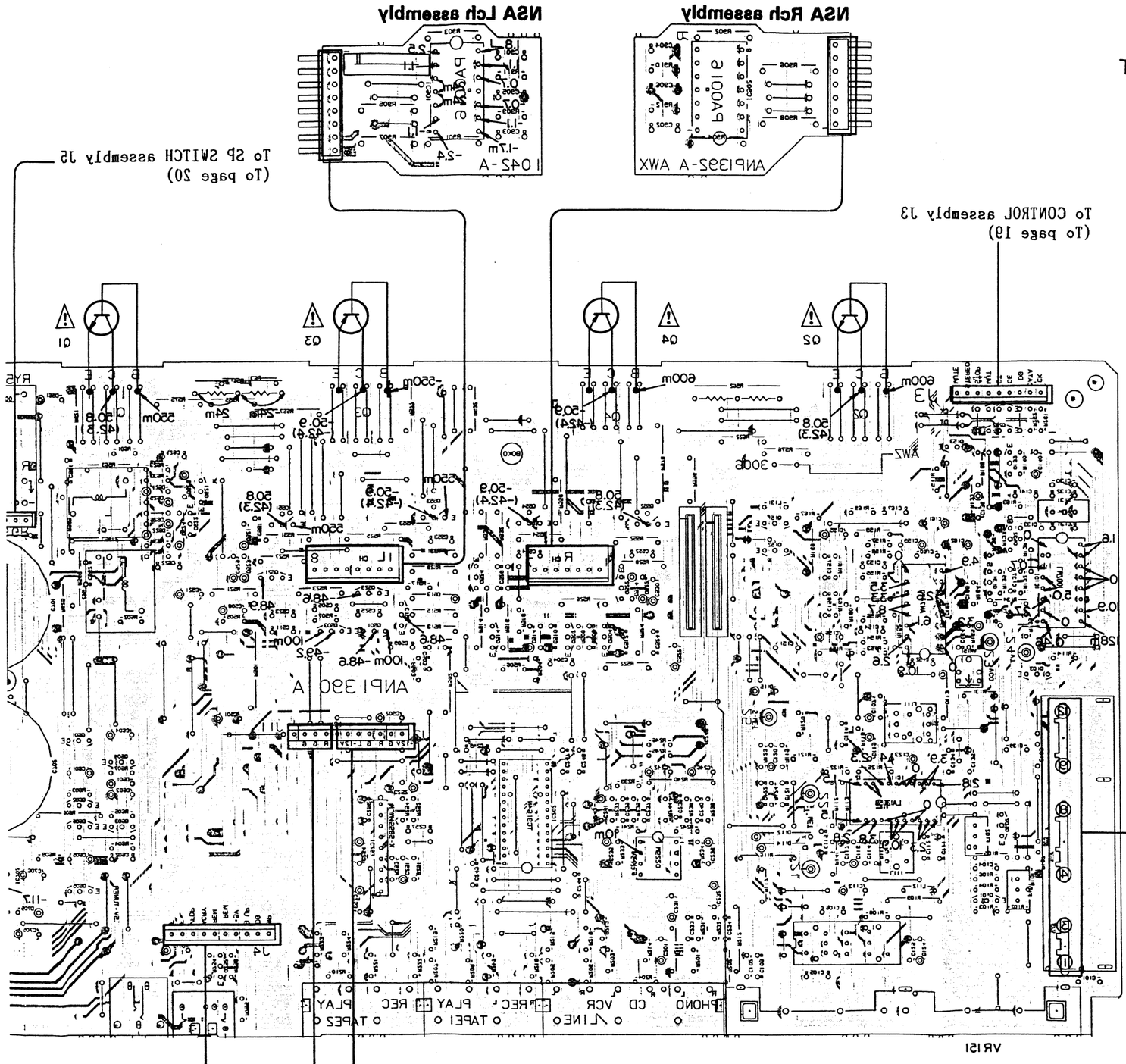
To CONTROL assembly J2 (To page 19)

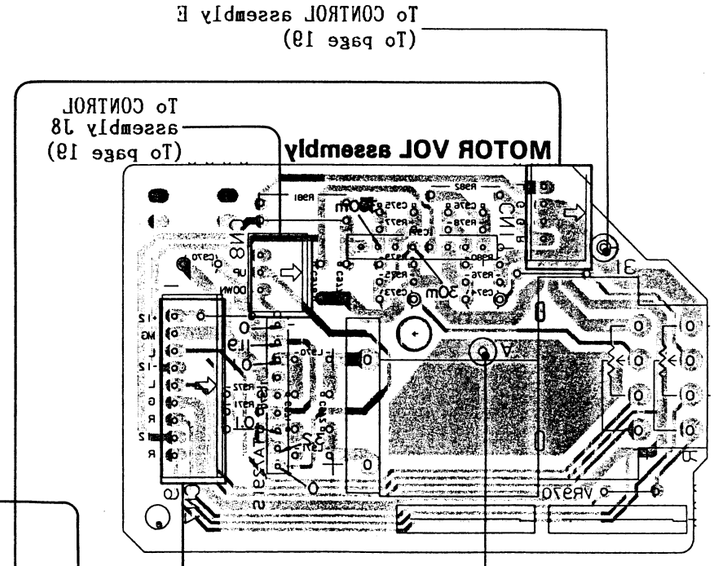

NSA Rch assembly
ANPI392-A AWX
NSA Lch assembly
1042-A
To SP SWITCH assembly J5
(To page 20)
L assembly J3
19)
TRANS assembly
POWER TRANSFORMER
FU4
FU3
C1
C2
220V
240V
AC POWER CORD
AC 220V/240V
50/60Hz
CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.
ATTENTION POUR LES CONTINUELLES PRECAUTIONS CONTRE LE FEU, LES FUSIBLES A REMPLACER DOIVENT ETRE DE MEME TYPE ET UNIQUEMENT.
PHONO
CD
VCR
REC
PLAY
LINE
TAPE1
TAPE2
ANPI390-A
COMPLEX assembly (AWZ3006)
VR151
IC701
IC201
IC202
IC253
IC702
IC751
Q752
Q751
Q601-Q606
To CONTROL assembly J2
(To page 19)
To CONTROL assembly J4
(To page 20)

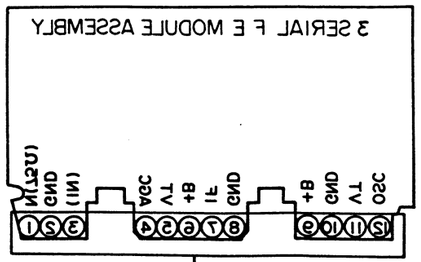
COMPLEX assembly (AWZ3008)

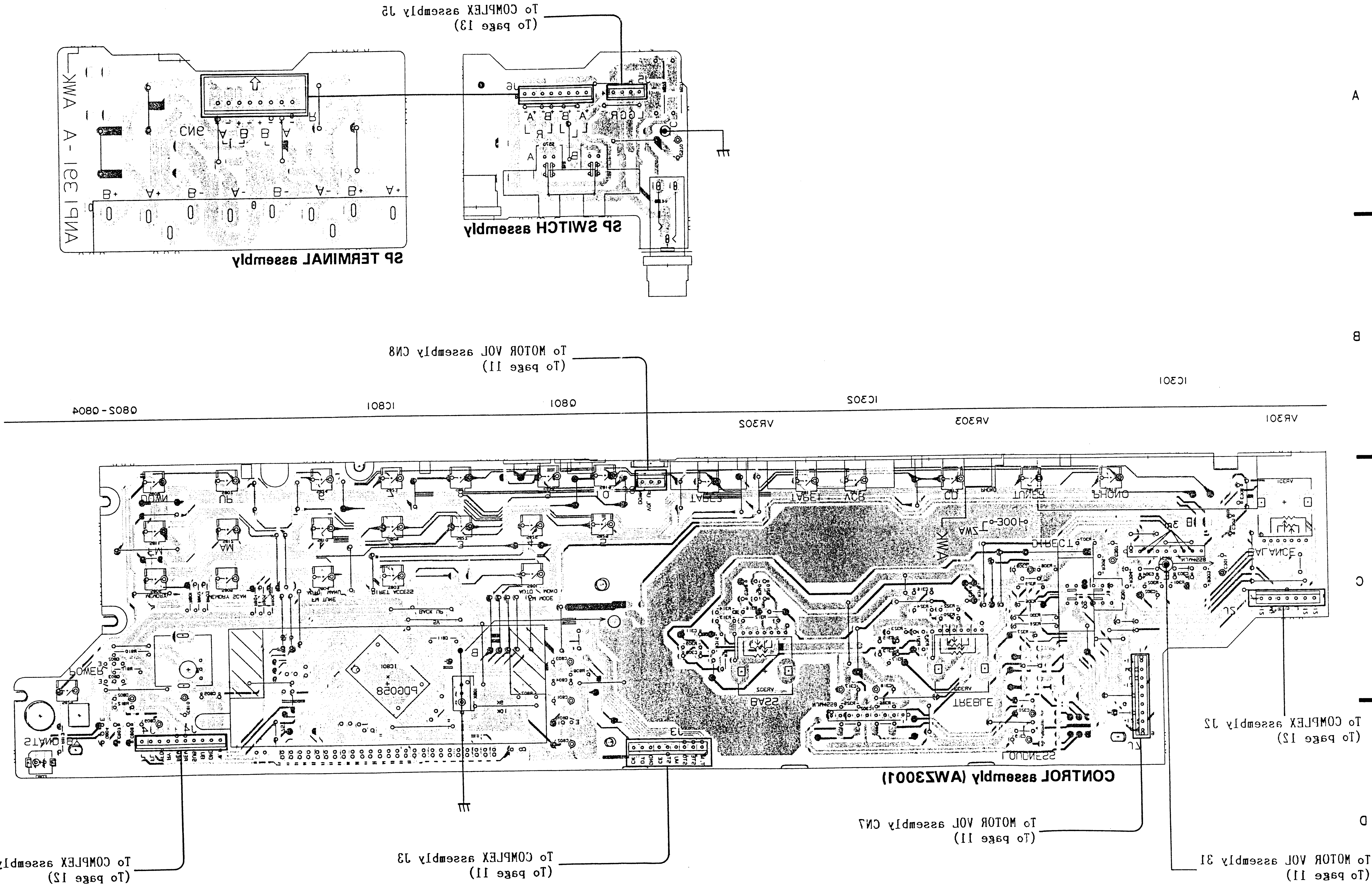


This P.C.B. connection diagram is viewed from the foil side.








To COMPLEX assembly J5
(To page 13)
SP TERMINAL assembly
SP SWITCH assembly
To MOTOR VOL assembly CN8
(To page 11)
Q802 - Q804
IC801
Q801
IC302
IC301
VR302
VR303
VR301
CONTROL assembly (AWZ3001)
To COMPLEX assembly J2
(To page 12)
To MOTOR VOL assembly CN7
(To page 11)
To MOTOR VOL assembly J1
(To page 11)
To COMPLEX assembly J3
(To page 11)
To COMPLEX assembly J4
(To page 12)

NOTE

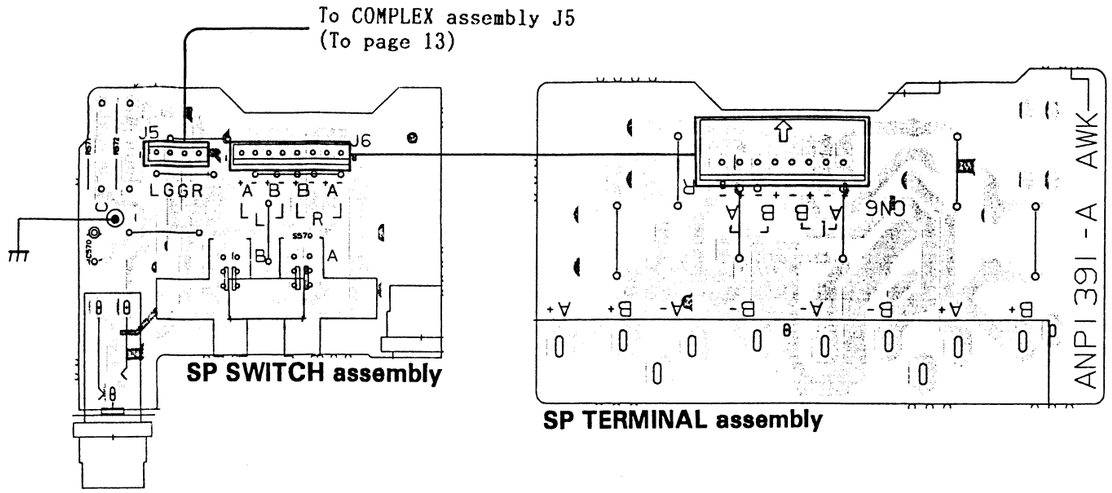
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

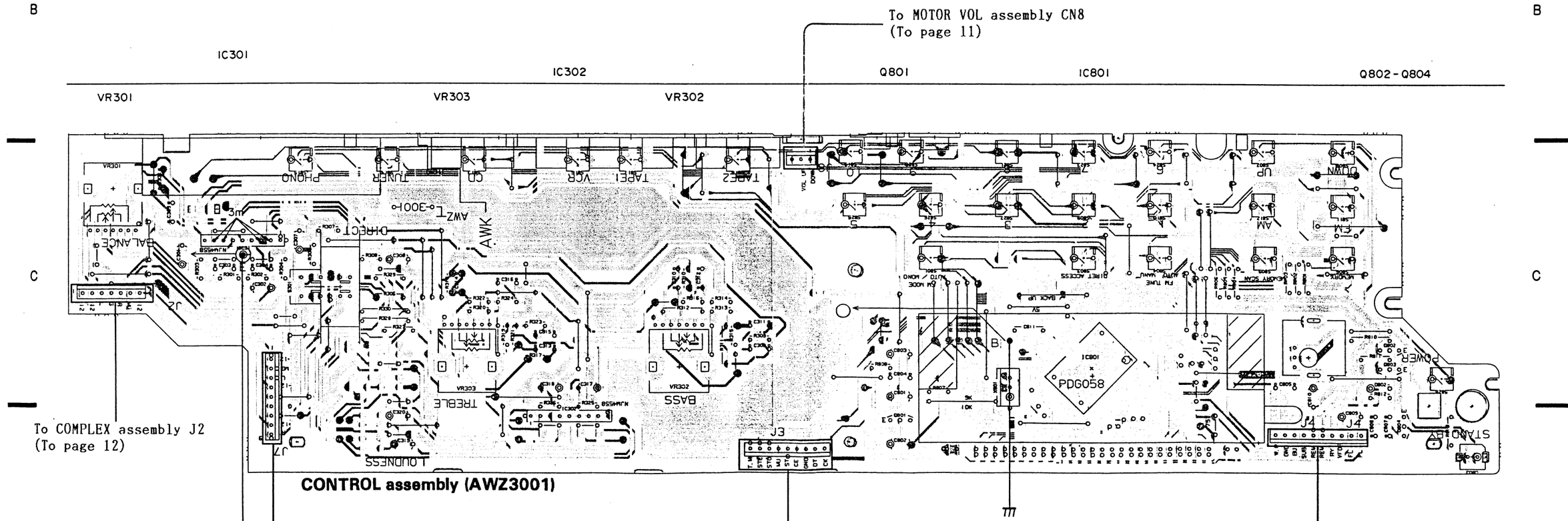
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 E C B	E C B or E C B	Transistor
Q215	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513		Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capactor terminal marked with ⊖(double circles) shows negatine termianl.
4. The diode terminal marked with ⊖(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.





FOR HEWZ TYPE

NOTE

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2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

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Others

P.C.B. pattern diagram indication	Part Name
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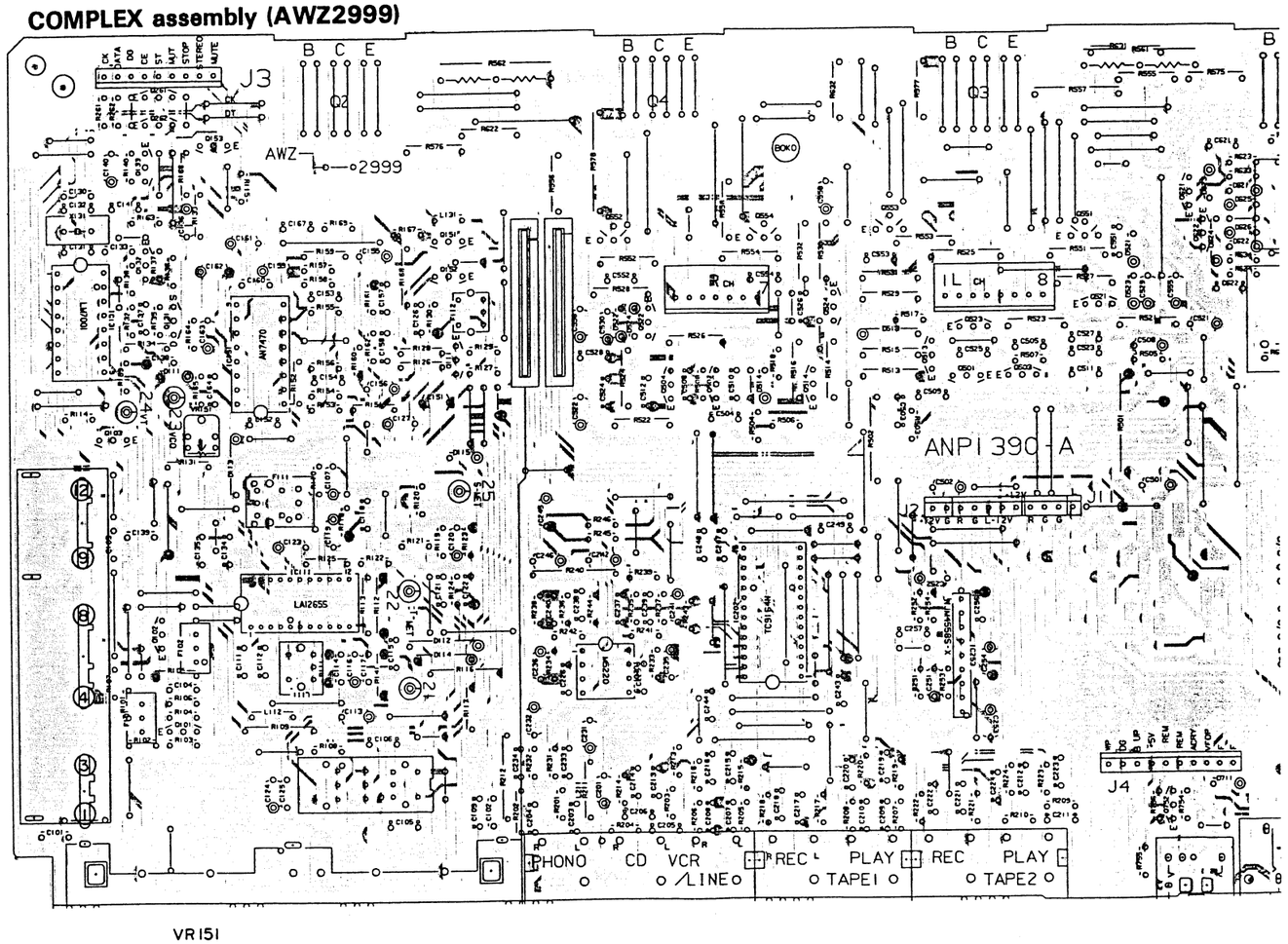
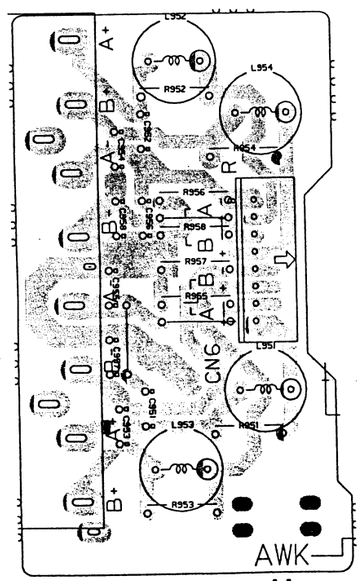
3. The capactor terminal marked with ◎(double circles) shows negatine termianl.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

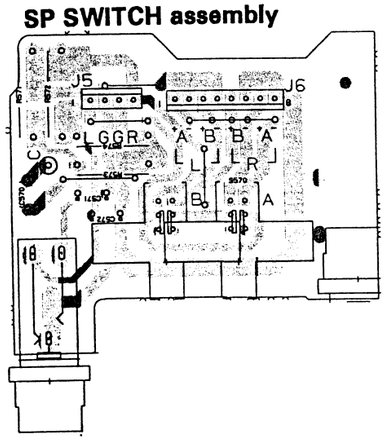
COMPLEX assembly (AWZ2999)



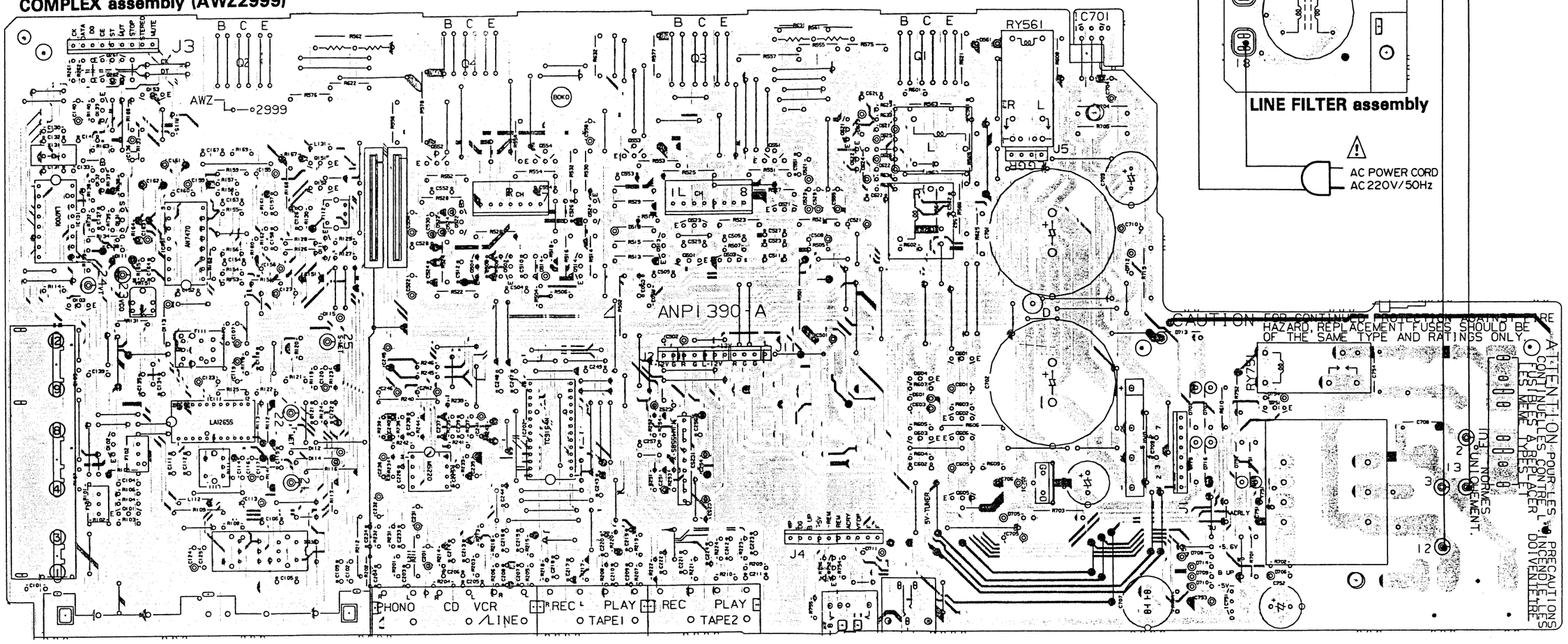


SP TERMINAL assembly

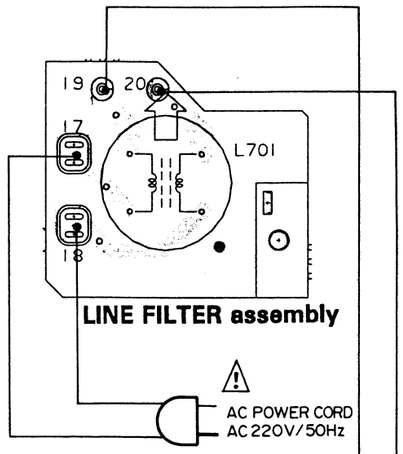
SP SWITCH assembly



COMPLEX assembly (AWZ2999)



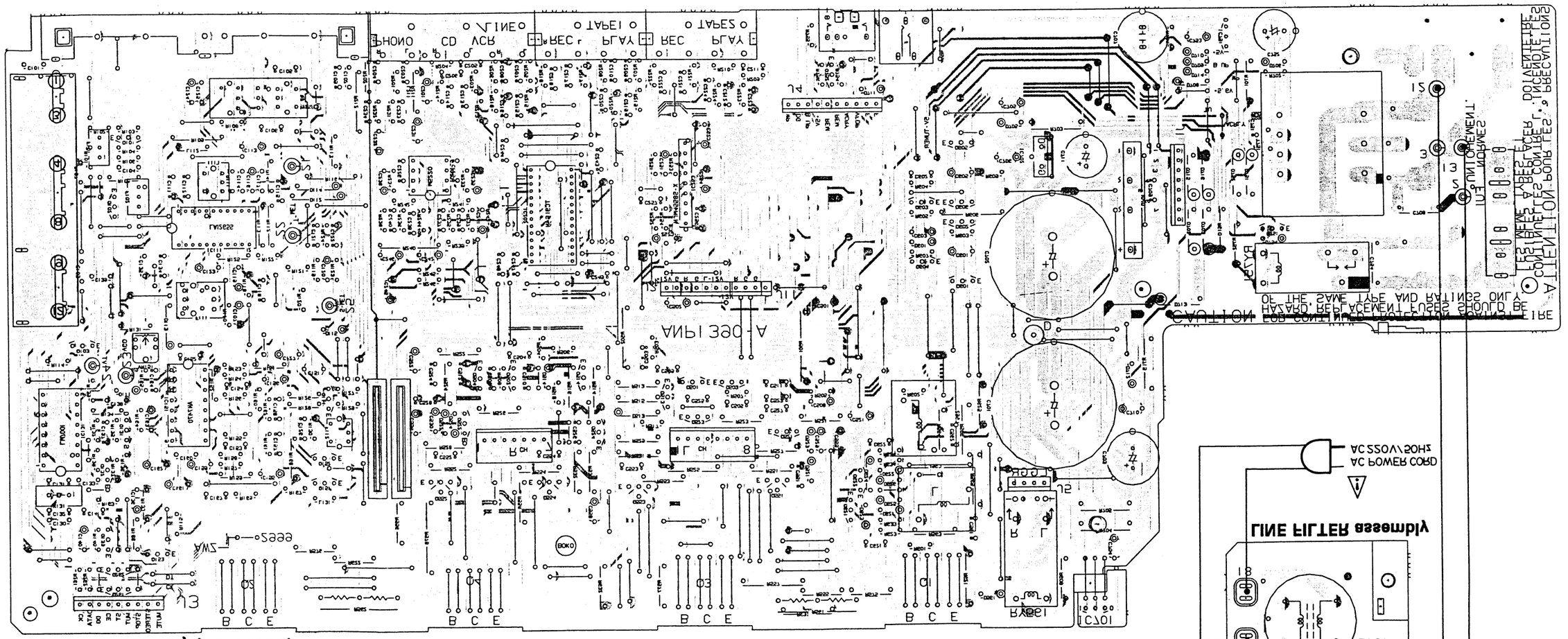
LINE FILTER assembly



CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.

ATTENTION POUR LES PRECAUTIONS CONTINUELLES CONTRE L'INCENDIE LES FUSIBLES DE REMPLACER DOIVENT ETRE DU MEME TYPES ET NORMES.

IC131 Q131-Q133 Q261 Q262 Q153 Q2 Q151 Q152 Q552 Q522 Q4 Q554 Q524 Q553 Q3 Q551 Q521 Q621 Q622 Q1 IC701
Q103 IC151 IC111 Q111 Q504 Q502 Q514 Q513 Q523 Q501 Q503 Q601-Q606 Q751
Q102 Q101 IC201 IC202 IC253 Q752 IC702 IC751

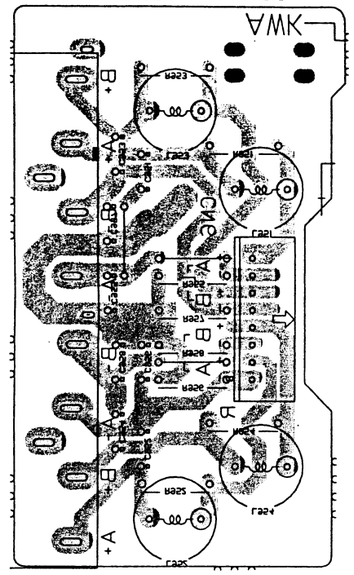


COMPLEX assembly (AWZ666)

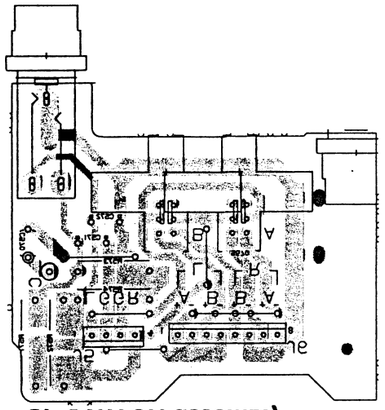
LINE FILTER assembly

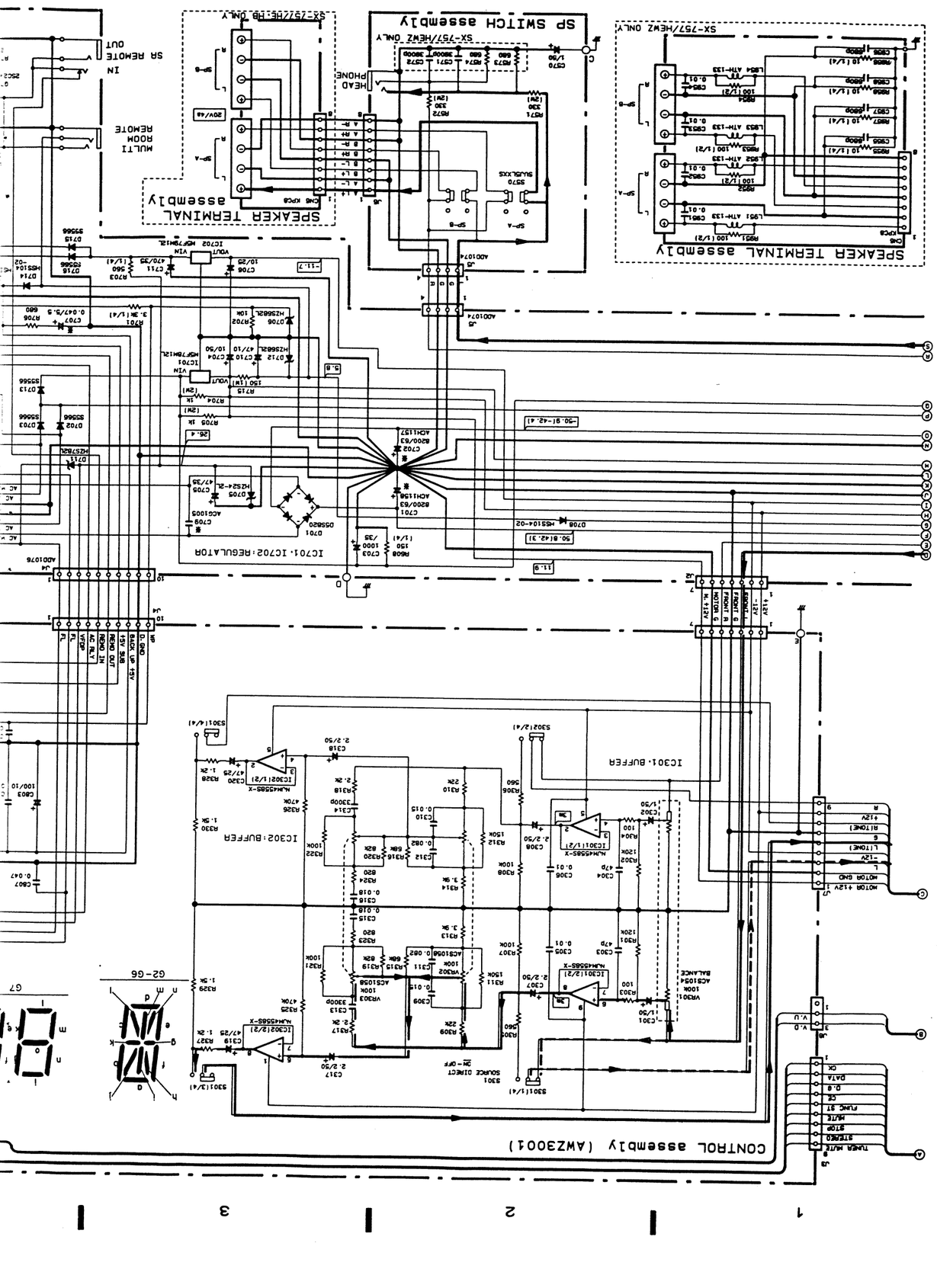
This P.C.B. connection diagram is viewed from the foil side.

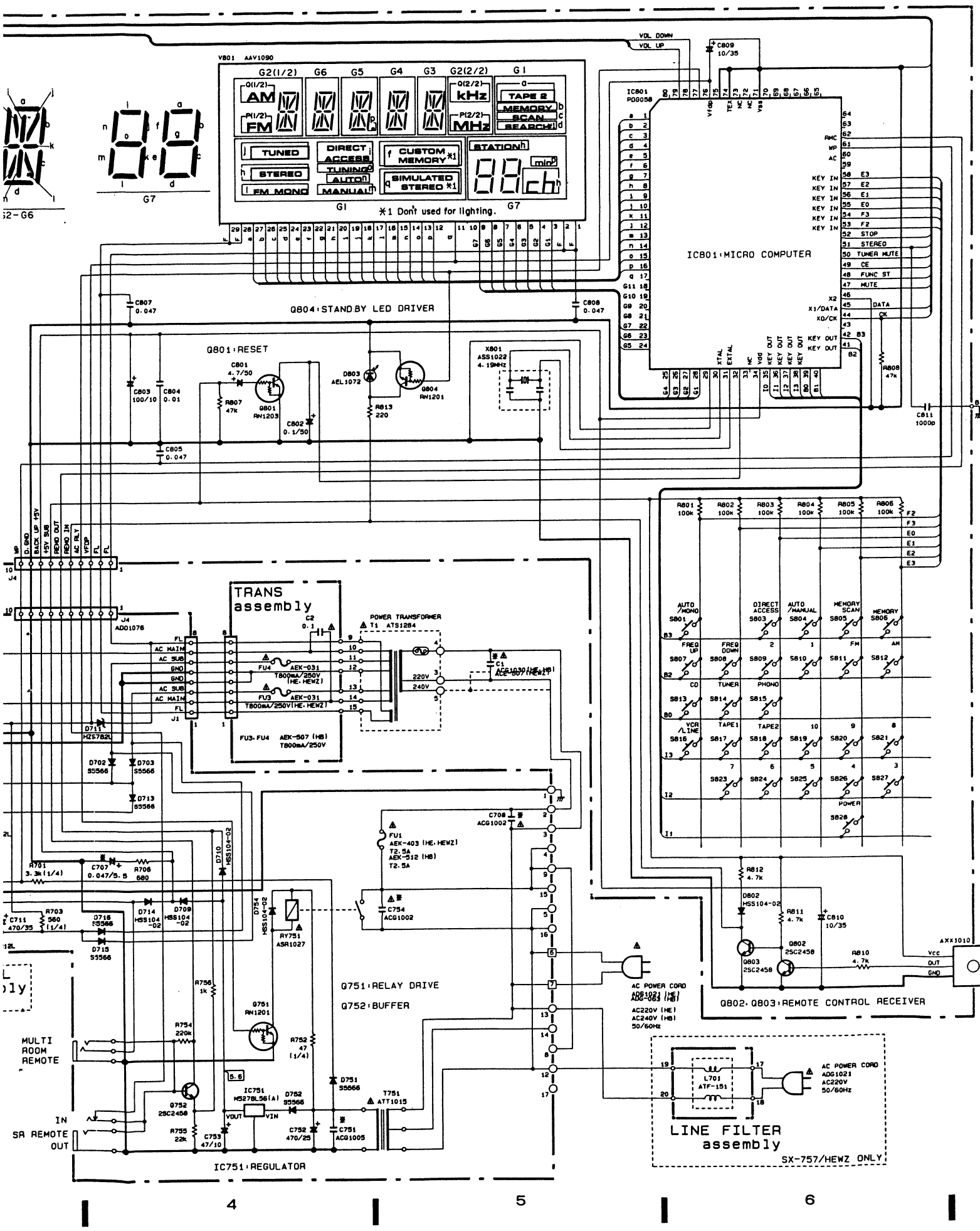
SP TERMINAL assembly



SP SWITCH assembly






VOL DOWN
VOL UP
C809 10/35
V801 AAV1090
G2(1/2) G6 G5 G4 G3 G2(2/2) G1
Q(1/2) AM
P(1/2) FM
Q(2/2) kHz
P(2/2) MHz
TAPE 2
MEMORY
SCAN
SEARCH
TUNED
STEREO
FM MONO
DIRECT ACCESS TUNING
AUTO
MANUAL
CUSTOM MEMORY *1
SIMULATED STEREO *1
STATION
min
ch
*1 Don't used for lighting.
G1
G7
IC801 PD6058
IC801:MICRO COMPUTER
KEY IN
KEY OUT
STOP
STEREO
TUNER MUTE
CE
FUNC ST
MUTE
DATA
CK
Q804:STAND BY LED DRIVER
Q801:RESET
C807 0.047
C808 0.047
C801 4.7/50
C802 0.1/50
C803 100/10
C804 0.01
C805 0.047
R807 47k
Q801 RN1203
D803 AEL1072
Q804 RN1201
R813 220
X801 ASS1022 4.19MHz
R808 47k
C811 1000p
R801 100k
R802 100k
R803 100k
R804 100k
R805 100k
R806 100k
AUTO /MONO S801
DIRECT ACCESS S803
AUTO /MANUAL S804
MEMORY SCAN S805
MEMORY S806
FREQ UP S807
FREQ DOWN S808
S809
S810
FM S811
AM S812
CD S813
TUNER S814
PHONO S815
VCR /LINE S816
TAPE1 S817
TAPE2 S818
10 S819
9 S820
8 S821
7 S823
6 S824
5 S825
4 S826
3 S827
POWER S828
J4 ADD1076
TRANS assembly
POWER TRANSFORMER T1 ATS1284
C2 0.1
FU4 AEK-031 T800mA/250V (HE·HEWZ)
FU3 AEK-031 T800mA/250V(HE·HEWZ)
FU3, FU4 AEK-507 (HB) T800mA/250V
220V
240V
C1 ACG1030(HE·HB) ACE-507(HEWZ)
D711 HZ5782L
D702 S5566
D703 S5566
D713 S5566
D715 S5566
D716 S5566
D714 HSS104-02
D709 HSS104-02
D710 HSS104-02
D754 HSS104-02
R701 3.3k(1/4)
C707 0.047/5.5
R706 680
C711 470/35
R703 560 (1/4)
C708 ACG1002
FU1 AEK-403 (HE·HEWZ) T2.5A
AEK-512 (HB) T2.5A
C754 ACG1002
RY751 ASR1027
R812 4.7k
D802 HSS104-02
R811 4.7k
C810 10/35
Q803 2SC2458
Q802 2SC2458
R810 4.7k
AXX1010
Vcc
OUT
GND
Q802, Q803:REMOTE CONTROL RECEIVER
AC POWER CORD ADG1021 (HE) ADG-063 (HB) AC220V (HE) AC240V (HB) 50/60Hz
R756 1k
Q751 RN1201
R754 220k
R752 47 (1/4)
Q751:RELAY DRIVE
Q752:BUFFER
MULTI ROOM REMOTE
IN
SR REMOTE
OUT
Q752 2SC2458
R755 22k
C753 47/10
IC751 M5278L56(A)
VOUT
VIN
D752 S5566
D751 S5566
T751 ATT1015
C752 470/25
C751 ACG1005
IC751:REGULATOR
L701 ATF-151
AC POWER CORD ADG1021 AC220V 50/60Hz
LINE FILTER assembly
SX-757/HEWZ ONLY

1. RESISTORS:
Indicated in Ω, ¼W, ⅛W. ±5% tolerance unless otherwise noted k : kΩ, M : MΩ. (F) : ±1%, (G) : ±2%, (K) : ±10% (M); ±20% tolerance

2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted p : pF
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE, CURRENT:
: Signal voltage at (100 W + 100 W 4Ω)output (1kHz)
: DC voltage (V) at no input signal
Value in ( ) is DC voltage at rated power.
⇦ mA : DC current at no input signal

4. OTHERS:
➡ : Signal route.
⊘ : Adjusting point.
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
※ marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

SWITCHES:

SP SWITCH assembly

S570 SP A ON-OFF / SP-B ON-OFF

CONTROL assembly

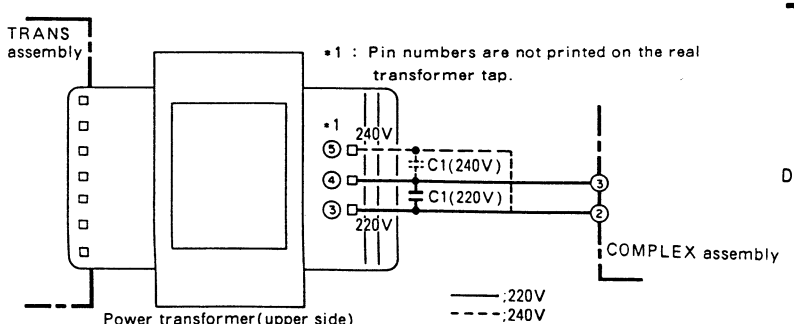
S801	FM MODE AUTO/MONO	S816	VCR/LINE
S803	DIRECT ACCESS	S817	TAPE 1/DAT
S804	FM TUNING AUTO/MANUAL	S818	TAPE 2/ADAPTOR
S805	MEMOLY SCANS	S819	＊0
S806	MEMOLY	S820	＊9
S807	FREQ UP	S821	＊8
S808	FREQ DOWN	S823	＊7
S809	＊2	S824	＊6
S810	＊1	S825	＊5
S811	FM	S826	＊4
S812	AM	S827	＊3
S813	CD	S828	POWER STANDBY/ON
S814	TUNER	S301	DIRECT ON/OFF
S815	PHONO		

LINE VOLTAGE SELECTION (FOR HE, HB and HEWZ TYPES)

Line voltage can be changed with the following steps.

1. Disconnect the AC power cord.
2. Remove the top cover.
3. Change the connection of the power transformer primary taps.
4. Change the connection to the capacitor (C1) on the primary side of the power transformer.
5. Stick the line voltage label on the rear panel.

Part No.	Description
AAX-193	220V label
AAX-192	240V label



5. P.C.B 's PARTS LIST

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	56×10^1	561	RD1/4PS 5 6 1 J
47kΩ	47×10^3	473	RD1/4PS 4 7 3 J
0.5Ω		0R5	RN2H 0 R 5 K
1Ω		010	RS1P 0 1 0 K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	562×10^1	5621	RN1/4SR 5 6 2 1 F

Mark	No.	Description	Parts No.
SP TERMINAL ASSEMBLY			
OTHERS			
		SPEAKER TERMINAL 8-P	AKE1011
	CN6	JUMPER CONNECTOR 8-P	KPC8
MOTOR VOL ASSEMBLY			
SEMICONDUCTORS			
	IC970		TA7291S
	IC971	OP-AMP IC	M5220L
COILS			
	L970,971	AXIAL INDUCTOR	LAU220K
CAPACITORS			
	C970	ELECTR.CAPACITOR	CEAS470M16
	C971	CERAMIC CAPACITOR	CKDYX473Z25
	C972	CERAMIC CAPACITOR	CKDYF473Z50
	C973,974	ELECTR.CAPACITOR	CEAS4R7M50
	C975	CERAMIC CAPACITOR	CCCSL220J50
	C976	CERAMIC CAPACITOR	CCDSL220J50
	C977,978	CERAMIC CAPACITOR	CKDYF103Z50
RESISTORS			
	VR970		ACX1040
	R981,982	CARBON FILM RESISTOR	RDR1/4PM471J
		Other resistors	RD1/8PM□□□J
OTHERS			
	CN11	JUMPER CONNECTOR 4-P	KPC4
	CN7	JUMPER CONNECTOR 9-P	KPC9
	CN8	JUMPER CONNECTOR 3-P	KPC3

Mark	No.	Description	Parts No.
TRANS ASSEMBLY			
No parts are supplied with the TRANS assembly.			
CONTROL ASSEMBLY (AWZ3001)			
SEMICONDUCTORS			
	IC301,302	OP-AMP IC	NJM4558S-X
	IC801	AMP CONTROL UCOM	PDG058
	Q801	TRANSISTOR	RN1203
	Q802,803	TRANSISTOR	2SC2458
	Q804	TRANSISTOR	RN1201
	D802	DIODE	HSS104-02
	D803	LED	AEL1072
SWITCHES			
	S301	PUSH SWITCH	ASG1036
	S801	SWITCH	ASG1034
	S803-821, S823-828	SWITCH	ASG1034
CAPACITORS			
	C301,302	ELECTR.CAPACITOR	CEAS010M50
	C303,304	CERAMIC CAPACITOR	CCCSL470J50
	C305,306	CERAMIC CAPACITOR	CKDYF103Z50
	C307,308	ELECTR.CAPACITOR	CEAS2R2M50
	C309,310	AUDIO FILM CAPACITOR	CFTXA153J50
	C311,312	AUDIO FILM CAPACITOR	CFTXA823J50
	C313,314	MYLOR FILM CAPACITOR	CQMA332K50
	C315,316	AUDIO FILM CAPACITOR	CFTXA183J50
	C317,318	ELECTR.CAPACITOR	CEAS2R2M50
	C319,320	ELECTR.CAPACITOR	CEAS470M25
	C801	ELECTROLYTIC CAPACITOR	CEJA4R7M50
	C802	ELECTROLYTIC CAPACITOR	CEJA0R1M50

Mark	No.	Description	Parts No.
	C803	ELECTROLYTIC CAPACITOR	CEJA101M10
	C804	CERAMIC CAPACITOR	CKDYF103Z50
	C805	CERAMIC CAPACITOR	CKDYF473Z50
	C807,808	CERAMIC CAPACITOR	CKDYF473Z50
	C809,810	ELECTROLYTIC CAPACITOR	CEJA100M35
	C811	CERAMIC CAPACITOR	CKPUYB102K50
RESISTORS			
	VR301		ACS1054
	VR302,303		ACS1058
		Other resistors	RD1/8PM□□□J
OTHERS			
		FL SPACER	AEB1120
		REMOTE RECEIVER UNIT	AXX1011
	V801	FL TUBE	AAV1090
	X801	CERAMIC OSCILLATOR	ASS1022

COMPLEX ASSEMBLY (AWZ3006)

SEMICONDUCTORS

IC111	AM/FM IC	LA1265S
IC131	PLL IC	LM7001
IC151	MPX IC	AN7470P
IC201	OP-AMP IC	M5220P
IC202	E-SW IC	TC9164N
IC253	OP-AMP IC	NJM4558S-X
IC701	REGULATOR IC	M5F78M12L
IC702	REGULATOR IC	M5F79M12L
IC751	REGULATOR IC	M5278L56
Q101	TRANSISTOR	2SC2668
Q102,103	TRANSISTOR	RN2201
Q131	N-FET	2SK246
Q132	TRANSISTOR	2SC1740SLN
Q133	TRANSISTOR	2SC1740S
Q151,152	TRANSISTOR	2SC1740S
Q153	TRANSISTOR	2SA1048
Q261,262	TRANSISTOR	RN1203
Q501-504	TRANSISTOR	2SA992
Q513,514	TRANSISTOR	2SC1845
Q521,522	TRANSISTOR	2SA1145
Q523,524	TRANSISTOR	2SC2705
Q551,552	TRANSISTOR	2SC3298
Q553,554	TRANSISTOR	2SA1306
Q601,602	TRANSISTOR	2SC2458
Q603	TRANSISTOR	2SA1048
Q604	TRANSISTOR	2SC2458
Q605	TRANSISTOR	RN1203
Q606	TRANSISTOR	RN1201
Q621,622	TRANSISTOR	2SC2240
Q751	TRANSISTOR	RN1201
Q752	TRANSISTOR	2SC2458
D111-115	DIODE	HSS104-02
D513,514	DIODE	HSS104-02
D521-524	DIODE	HSS104-02
D561	DIODE	HSS104-02
D601	ZENER DIODE	HZS12AL
D621-626	DIODE	HSS104-02
D701	DIODE	D5SB20
D702,703	DIODE	S5566
D705	ZENER DIODE	HZS24-2L
D706	ZENER DIODE	HZS6B2L
D708-710	DIODE	HSS104-02
D711	ZENER DIODE	HZS7B2L
D712	ZENER DIODE	HZS6B2L
D713	DIODE	S5566
D714	DIODE	HSS104-02
D715,716	DIODE	S5566
D751,752	DIODE	S5566
D754	DIODE	HSS104-02

FILTERS

F101,102	CERAMIC FILTER	ATF-126
F111	CERAMIC FILTER	ATF-208

COILS & TRANSFORMER

L111	COIL	ATE-079
L112	AXIXL INDUCTOR	LAU2R2M
L131	AXIAL INDUCTOR	LAU2R2M
L561,562	COIL	ATH1004
T751	POWER TRANSFORMER	ATT1015

RELAIES

RY561	RELAY	ASR-112
RY751	RELAY	ASR1027

CAPACITORS

C101-104	CERAMIC CAPACITOR (0.01μ)	ACG1021
C105,106	CERAMIC CAPACITOR	CKDYF223Z50
C107	CERAMIC CAPACITOR	CKDYF473Z50
C109	CERAMIC CAPACITOR	CKDYX104M25
C111,112	CERAMIC CAPACITOR	CKDYF223Z50
C113	ELECTR.CAPACITOR	CEAS330M16
C114	CERAMIC CAPACITOR	ACG1021
C115	CERAMIC CAPACITOR	CKDYF103Z50
C116	ELECTR.CAPACITOR	CEAS010M50
C117	CERAMIC CAPACITOR (330p)	ACG1018
C118	CERAMIC CAPACITOR	CKDYF103Z50
C119	ELECTR.CAPACITOR	CEAS100M50
C120	ELECTR.CAPACITOR	CEAS2R2M50
C121	CERAMIC CAPACITOR	CKDYF222Z50
C122	CERAMIC CAPACITOR	CKDYF473Z50

Mark	No.	Description	Parts No.
	C123	ELECTR.CAPACITOR	CEAS4R7M50
	C124	ELECTR.CAPACITOR	CEAS470M10
	C125	CERAMIC CAPACITOR	ACG1021
	C130	CERAMIC CAPACITOR	ACG1021
	C131,132	CERAMIC CAPACITOR	CCDCH150J50
	C133	CERAMIC CAPACITOR	ACG1021
	C134	CERAMIC CAPACITOR	CKDYF103Z50
	C135	CERAMIC CAPACITOR (47p)	ACG1016
	C136	ELECTR.CAPACITOR	CEAS330M16
	C137	AUDIO FILM CAPACITOR	CFTXA224J50
	C138,139	CERAMIC CAPACITOR	ACG1021
	C140	ELECTR.CAPACITOR	CEAS470M16
	C151	ELECTR.CAPACITOR	CEANP4R7M35
	C152	CERAMIC CAPACITOR	CKDYF473Z50
	C153,154	MYLOR FILM CAPACITOR	CQMA102J50
	C155,156	ELECTR.CAPACITOR	CEAS4R7M50
	C157,158	CERAMIC CAPACITOR	CKDYB182K50
	C159	ELECTR.CAPACITOR	CEAS470M16
	C160	CERAMIC CAPACITOR	ACG1021
	C161	ELECTR.CAPACITOR	CEASR22M50
	C162	ELECTROLYTIC CAPACITOR	CEAS1R5M50
	C163	ELECTR.CAPACITOR	CEAS3R3M50
	C164	(470p)	ACE1039
	C167	CERAMIC CAPACITOR	CCCSL101J50
	C201	ELECTR.CAPACITOR	CEAS010M50
	C231,232	ELECTR.CAPACITOR	CEAS100M50
	C233,234	CERAMIC CAPACITOR	CCCSL221J50
	C235,236	ELECTROLYTIC CAPACITOR	CEAS471M6
	C237,238	AUDIO FILM CAPACITOR	CFTXA243J50
	C239,240	AUDIO FILM CAPACITOR	CFTXA823J50
	C241,242	ELECTR.CAPACITOR	CEAS2R2M50
	C243,244	CERAMIC CAPACITOR	CKDYF103Z50
	C245,246	ELECTR.CAPACITOR	CEAS470M16
	C247,248	CERAMIC CAPACITOR	CKCYB331K50
	C249	CERAMIC CAPACITOR	CKCYB471K50
	C251,252	ELECTR.CAPACITOR	CEAS2R2M50
	C253,254	ELECTR.CAPACITOR	CEAS4R7M50
	C256,257	CERAMIC CAPACITOR	CKDYF103Z50
	C501,502	ELECTR.CAPACITOR	CEAS2R2M50
	C503,504	MYLOR FILM CAPACITOR	CQMA222J50
	C505,506	CERAMIC CAPACITOR	CKDYB681K50
	C508	ELECTR.CAPACITOR	CEAS101M16
	C509–512	CERAMIC CAPACITOR	CCCSL470J50
	C521,522	ELECTR.CAPACITOR	CEAS220M16
	C523,524	CERAMIC CAPACITOR	CCCSL060D500
	C525,526	CERAMIC CAPACITOR	CCCSL050C500
	C529,530	ELECTR.CAPACITOR	CEAS101M10

Mark	No.	Description	Parts No.
	C551–554	CERAMIC CAPACITOR	CCCSL101K500
	C561,562	AUDIO FILM CAPACITOR	CFTXA473J50
	C601	ELECTROLYTIC CAPACITOR	CEAS471M6
	C602	CERAMIC CAPACITOR	CKDYF103Z50
	C603	ELECTR.CAPACITOR	CEAS101M16
	C605	ELECTR.CAPACITOR	CEAS4R7M50
	C621,622	ELECTR.CAPACITOR	CEANP2R2M50
	C701	ELECTROLYTIC CAPACITOR (8200/63V)	ACH1158
	C702	ELECTROLYTIC CAPACITOR (8200/63V)	ACH1157
	C703	ELECTROLYTIC CAPACITOR	CEAS102M35
	C704	ELECTR.CAPACITOR	CEAS100M50
	C705	ELECTROLYTIC CAPACITOR	CEAS470M35
	C706	ELECTR.CAPACITOR	CEAS100M25
	C707	CEA (47000/5.5V)	ACH1037
⚠	C708	CKA (0.01/AC400V)	ACG1002
	C709	CKA (0.01/AC250V)	ACG1005
	C710	ELECTR.CAPACITOR	CEAS470M10
	C711	ELECTROLYTIC CAPACITOR	CEAS471M35
	C751	CKA (0.01/AC250V)	ACG1005
	C752	ELECTROLYTIC CAPACITOR	CEAS471M25
	C753	ELECTR.CAPACITOR	CEAS470M10
⚠	C754	CKA (0.01/AC400V)	ACG1002
RESISTORS			
	VR151	VR(4.7K)	ACP1024
	R501,502	CARBON FILM RESISTOR	RDR1/4PM561J
	R513–516	FUSLIBLE RESISTOR	RFA1/4PS391J
	R521,522	CARBON FILM RESISTOR	RDR1/4PM682J
	R523,524	CARBON FILM RESISTOR	RDR1/4PM104J
	R525,526	CARBON FILM RESISTOR	RD1/4PM104J
⚠	R527,528	CARBON FILM RESISTOR	RD1/4PMF121J
⚠	R529,530	FUSLIBLE RESISTOR	RFA1/4PS101J
	R531,532	CARBON FILM RESISTOR	RD1/4PM563J
⚠	R551–554	FUSLIBLE RESISTOR	RFA1/4PS101J
	R555–558	CARBON FILM RESISTOR	RD1/4PMF101J
⚠	R561,562	RESISTOR (0.33,5W)	ACN–139
⚠	R563,564	CARBON FILM RESISTOR	RD1/4PMF100J
	R565,566	METAL OXIDE RESISTOR	RS1LMF100J

Mark	No.	Description	Parts No.
	R575–578	FUSLIBLE RESISTOR	RFA1/4PS4R7J
⚠	R608	CARBON FILM RESISTOR	RD1/4PMF151J
	R610	FUSLIBLE RESISTOR	RFA1/4PS100J
	R621,622	CARBON FILM RESISTOR	RD1/4PMF222J
	R625	CARBON FILM RESISTOR	RD1/4PMF101J
	R631,632	CARBON FILM RESISTOR	RD1/4PMF222J
	R701	CARBON FILM RESISTOR	RD1/4PM332J
	R703	CARBON FILM RESISTOR	RD1/4PMF561J
	R704,705	METAL OXIDE RESISTOR	RS2LMF102J
	R715	METAL OXIDE RESISTOR	RS1LMF151J
	R752	CARBON FILM RESISTOR	RD1/2PM470J
		Other resistors	RD1/8PM□□□J
OTHERS			
		ANTENNA TERMINAL 4–P	AKA1010
		PHONO JACK 4–P	AKB1101
		PHONO JACK 6–P	AKB1135
		JACK	AKN1006
*		3 Serial FE module assembly	AXQ1003
		AM RF tuning block	AXX1011
	X131	CRYSTAL RESONATOR	ASS1005
		NSA Lch assembly	
		NSA Rch assembly	

* : Componentparts of 3 Serial FE module assembly (AXQ1003) is not supplied in service.

NSA LCH ASSEMBLY

NSA Lch assembly is a part of COMPLEX assembly (AWZ3006).

Mark	No.	Description	Parts No.
SEMICONDUCTOR			
	IC901	NSC2 IC	PA0016
CAPACITORS			
	C901	CERAMIC CAPACITOR	CCCSL680J50
	C903	CERAMIC CAPACITOR	CCCSL680J50
	C905	CERAMIC CAPACITOR	CCCSL151J50
RESISTORS			
	R901	CARBON FILM RESISTOR	RD1/8PM152J
	R903	CARBON FILM RESISTOR	RD1/8PM152J
	R905	FUSLIBLE RESISTOR	RFA1/4PS470J
	R907	FUSLIBLE RESISTOR	R A1/4PS470J
	R909	CARBON FILM RESISTOR	RD1/8PM271J
	R911	CARBON FILM RESISTOR	RD1/8PM271J

NSA RCH ASSEMBLY

NSA Rch assembly is a part of COMPLEX assembly (AWZ3006).

Mark	No.	Description	Parts No.
SEMICONDUCTOR			
	IC902	NSC2 IC	PA0016
CAPACITORS			
	C902	CERAMIC CAPACITOR	CCCSL680J50
	C904	CERAMIC CAPACITOR	CCCSL680J50
	C906	CERAMIC CAPACITOR	CCCSL151J50
RESISTORS			
	R902	CARBON FILM RESISTOR	RD1/8PM152J
	R904	CARBON FILM RESISTOR	RD1/8PM152J
	R906	FUSLIBLE RESISTOR	RFA1/4PS470J
	R908	FUSLIBLE RESISTOR	RFA1/4PS470J
	R910	CARBON FILM RESISTOR	RD1/8PM271J
	R912	CARBON FILM RESISTOR	RD1/8PM271J

SP SWITCH ASS'Y

Mark	No.	Description	Parts No.
SWITCH			
	S570	PUSH SWITCH	SUJ5LXXS
CAPACITOR			
	C570	ELECTR.CAPACITOR	CEAS010M50
RESISTORS			
	R571,572	METAL OXIDE RESISTOR	RS2LMF331J
OTHER			
		JACK (PHONES)	AKN1002

6. ADJUSTMENTS

6.1 ADJUSTMENT OF THE FM TUNER SECTION

- Set the mode selector to FM BAND.
- Connect the wiring as shown in the Fig.6–2

Step No.	Adjustment title	FM SG (1kHz ± 75kHz dev.) Frequency (MHz)	FM SG (1kHz ± 75kHz dev.) Level (dB μ V)	Reception frequency display	Adjustment location	Specifications
1	Center adjustment	98.0	60	98.0 MHz	L111	Adjust so that the DC voltage between the TP–21 and TP–22 becomes 0V ± 50mV.
2	VCO adjustment	Non-modulation	60	98.0 MHz	VR151	Adjust so that the output of the TP–23 becomes 76kHz ± 0.5kHz.
3	TUNED IND. Lighting level	98.0 *1 (Stereo modulation)	—	98.0MHz	R121	The R121 of the COMPLEX assembly has been mounted or removed at the time of adjustment in the production. Mount or remove R121 referring to the table below, and adjust it so that the indicators of TUNED start to light up at 24 dBμV (±15dB).
4	MPX DISTORTION adjustment	98.0*1 (L or R only)	60	98.0MHz	Output coil of front mode	Adjust the core with ±1/4 rotation to less than 1.5% from the highest sensitivity.

Input level	R121
The indicators of TUNED start lighting up at a larger input than 39 dBμV.	Remove
The indicators of TUNED start lighting up at less input than 9 dBμV.	Mount

*1 Stereo modulation : Main 1 kHz L+R ± 68.25 kHz dev.
Pilot 19 kHz ± 6.75 kHz dev.

6.2 ADJUSTMENT OF THE MW TUNER SECTION

- Set the mode selector to MW BAND.
- Connect the wiring as shown in the Fig.6–2
- The values in ( ) are values of 10 kHz steps.

Step No.	Adjustment title	AM SG (400Hz 30%MOD) Frequency (kHz)	AM SG (400Hz 30%MOD) Level (dB μ V)	Reception frequency display	Adjustment location	Specifications
1	TUNED IND. Lighting level	999 (1000)	—	999kHz (1000kHz)	R120	The R120 of the COMPLEX assembly has been mounted or removed at the time of adjustment in the production. Mount or remove R120 referring to the table below, and adjust it so that the indicators of TUNED start to light up at less input than 65 dBμV

Input level	R120
The indicators of TUNED start linghting up a larger input than 65dBμV.	Remove

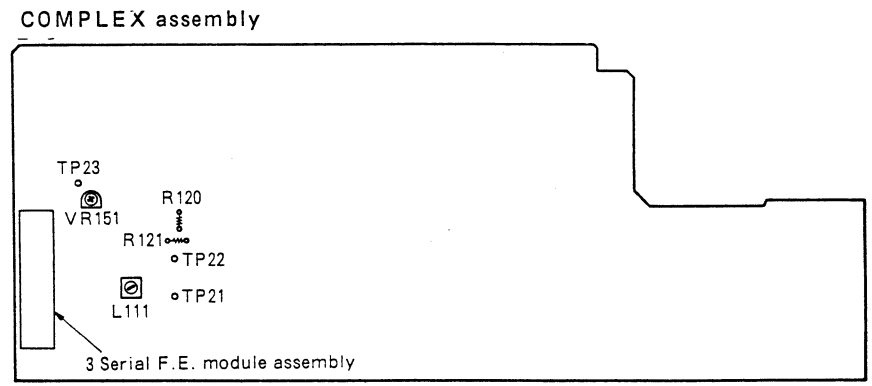


Fig. 6–1 adjustment point

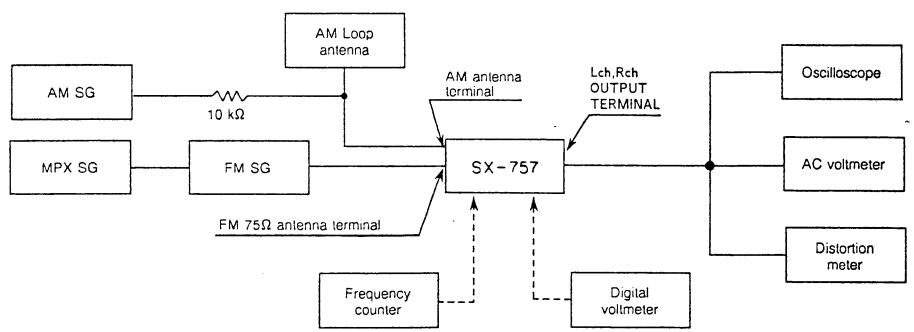


Fig. 6–2 MW and FM adjustment wiring diagram

6. RÉGLAGE

6-1 Réglage du tuner FM

- Régler le sélecteur de mode sur la position FM BAND.
- Connecter le câblage comme indiqué sur la Fig. 6-2.

Etape No.	Items de réglage	FM SG (1kHz ± 75kHz dev.) Fréquence (MHz)	FM SG (1kHz ± 75kHz dev.) Niveau (dB µ V)	Affichage de fréquence de reception	Liea de réglage	Caractéristiques
1	Réglage centre	98.0	60	98.0 MHz	L111	Régler de sorte que la tension CC entre TP-21 et TP-22 devienne 0 V ± 50 mV.
2	Réglage VCO	Non modulation	60	98.0 MHz	VR151	Régler de sorte que la sortie de TP-23 devienne 76 kHz ± 0,5 kHz.
3	TUNED IND. Niveau d'éclairement	98,0 *1 (Modulation stéréo)	—	98.0MHz	R121	Le R121 de l'assemblage du COMPLE a été monté ou retiré au moment du réglage pendant la production. Monter ou retier le R121 d'après le tableau ci-dessous, et le régler de manière que indicateurs de TUNED commencent à s'allumer à 24dB µV (+/-15dB).
4	MPX Reglage DISTORTION	98.0*1 (L ou R uniquement)	60	98.0MHz	Bobine de sortie de mode avant	Régler le noyau avec ± 1/4 de rotation à moins de 1,5% de la sensibilité la plus élevée.

Niveau d'entrée	R121
Les indicateurs de TUNED commencent à s'allumer pour une entrée supérieure à 39 dBµV.	Retirer
Les indicateurs de TUNED commencent à s'allumer pour une entrée inférieure à 9 dBµV.	Monter

*1 Modulation stéréo: Principal 1kHz L + R ±68,25kHz dév.
Pilote 19kHz ±6,75kHz dév.

6-2 Réglage du tuner PO (MW)

- Régler le sélecteur de mode sur la position MW BAND.
- Connecter le câblage comme indiqué sur la Fig. 6-2.
- Les valeurs entre parenthèses correspondent à des incréments de 10 kHz.

Etape No.	Items de réglage	AM SG (400Hz 30%MOD) Fréquence (kHz)	AM SG (400Hz 30%MOD) Niveau (dB µ V)	Affichage de fréquence de réception	Liea de réglage	Caractéristiques
1	TUNED IND. Niveau d'éclairement	999 (1000)	—	999kHz (1000kHz)	R120	Le R120 de l'assemblage du COMPLE a été monté ou retire au moment du réglage pendant la production. Monter ou retier le R120 d'après le tableau ci-dessous, et le régler de manière que indicateurs de TUNED commencent à s'allumer à moins de 65dB µ V.

Niveau d'entrée	R120
Les indicateurs de TUNED commencent à s'allumer pour une entrée supérieure à 65 dBµV.	Retirer

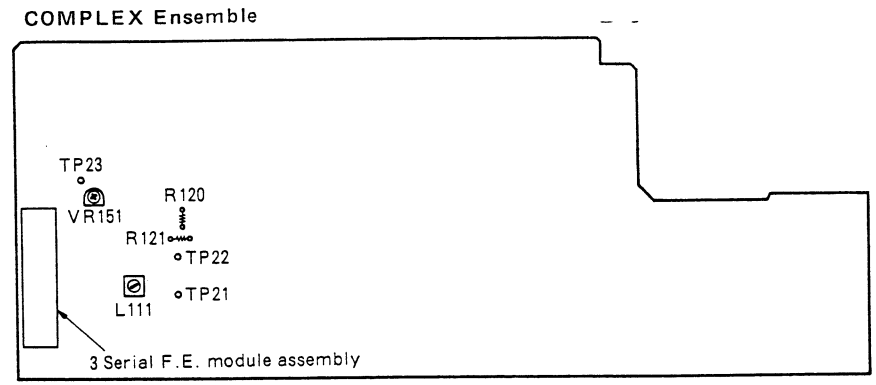


Fig. 6-1 Pointe de réglemente

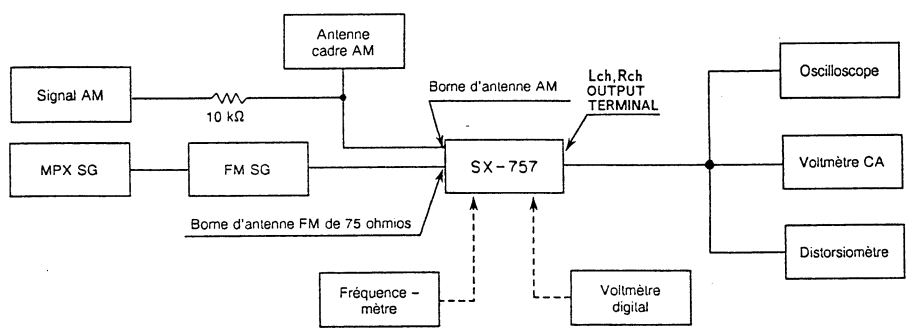


Fig. 6-2 Diagramme de câblage de réglage FM et MW

6. AJUSTE

6-1 Ajuste del sintonizador de FM

- Ajustar el selector de modo a FM BAND.
- Conectar el conexionado de la manera observada en la Fig. 6-2.

Nº de paso	Items de ajuste	FM SG (1kHz ± 75kHz dev.) Frecuencia (MHz)	FM SG (1kHz ± 75kHz dev.) Nivel (dB μ V)	Frecuencimetro de receptión	Lugar de ajuste	Especificaciones
1	Ajuste central	98.0	60	98.0 MHz	L111	Ajustar de manera que la tensión de CC entre TP-21 y TP-22 quede en 0V ± 50mV
2	Ajuste de VCO	Sin modulación	60	98.0 MHz	VR151	Ajustar de manera que la salida de TP-23 sea de 76kHz ± 0,5kHz.
3	Nivel de iluminación de TUNED IND.	98.0 *1 (Modulación estéreo)	—	98.0MHz	R121	El R121 del conjunto COMPLE ha sido montado extraído en el momento del ajuste en la fábrica. Monte el R121 consultando la tabla siguiente, y ajústelo de forma que los indicadores de TUNED comiencen a encenderse a 24dB μ V (± 15dB).
4	Ajuste de MPX DISTORTION	98.0 *1 Solamente izquierdo (L) o derecho (R)	60	98.0MHz	Bobina de salida de modo delantero	Ajuste el núcleo con una rotación de 1/4 a menos del 1,5% desde la sensibilidad más alta.

Nivel de entrada	R121
Los indicadores de TUNED comienzan a encenderse a una entrada mayor de 39 dBμV.	Extraiga.
Los indicadores de TUNED comienzan a encenderse a una entrada inferior de 9 dBμV.	Monte.

*1 Modulación estereo: Principal 1kHz L + R ± 68,25 kHz dev.
Pilote 19kHz ± 6,75kHz dev.

6-2 Ajuste del sintonizador de MW

- Ajustar el selector de modo a MW BAND.
- Conectar el conexionado de la manera mostrada en la Fig. 6-2.
- Los valores entre parétesis( ) son los de pasos de 10 kHz.

Nº de paso	Items de ajuste	AM SG (400Hz 30%MOD) Frecuencia (kHz)	AM SG (400Hz 30%MOD) Nivel (dB μ V)	Frecuencimetro de recepción	PLugar de ajuste	Especificaciones
1	Nivel de iluminación de TUNED IND.	999 (1000)	—	999kHz (1000kHz)	R120	El R120 del conjunto COMPLE ha sido montado extraído en el momento del ajuste en la fábrica. Monte el R120 consultando la tabla siguiente, y ajústelo de forma que los indicadores de TUNED comiencen a encnderse a una entrada menor de 65dB μ V.

Nivel de entrada	R120
Los indicadores de TUNED comienzan a encenderse a una entrada mayor de 65 dBμV.	Extraiga.

Conjunto COMPLEX

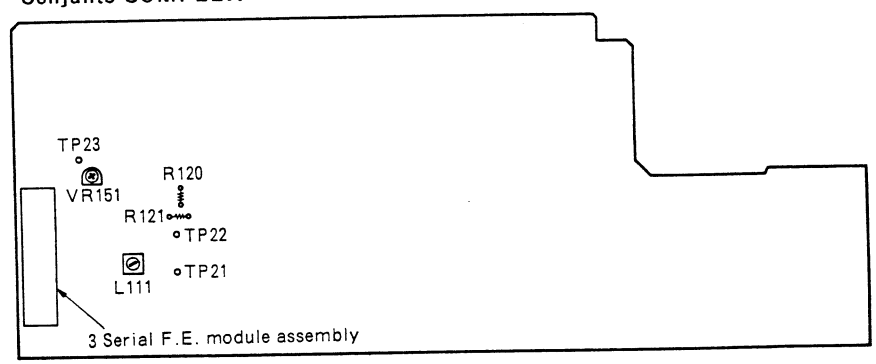


Fig. 6-1 Puntos de ajuste

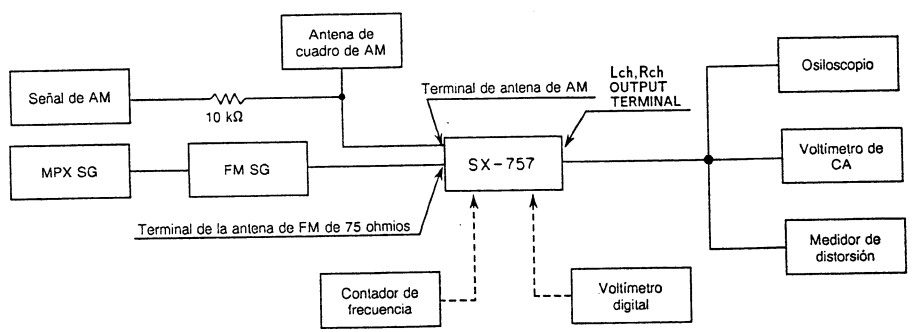


Fig. 6-2 Diagramma de conexión de ajuste de MW y FM

7. IC INFORMATION

SYSTEM CONTROL MICRO COMPUTER (PDG058)

•Terminal function

No.	Terminal Name	I/O	Terminal function
1	a	DP	FL segment output (a)
2	b	DP	FL segment output (b)
3	c	DP	FL segment output (c)
4	d	DP	FL segment output (d)
5	e	DP	FL segment output (e)
6	f	DP	FL segment output (f)
7	g	DP	FL segment output (g)
8	h	DP	FL segment output (h)
9	i	DP	FL segment output (i)
10	j	DP	FL segment output (j)
11	k	DP	FL segment output (k)
12	l	DP	FL segment output (l)
13	m	DP	FL segment output (m)
14	n	DP	FL segment output (n)
15	o	DP	FL segment output (o)
16	p	DP	FL segment output (p)
17	q	DP	FL segment output (q)(Not used ; NC)
18	G11	DP	FL grid output (G11)(Not used ; NC)
19	G10	DP	FL grid output (G10)(Not used ; NC)
20	G9	DP	FL grid output (G9)(Not used ; NC)
21	G8	DP	FL grid output (G8)(Not used ; NC)
22	G7	DP	FL grid output (G7)
23	G6	DP	FL grid output (G6)
24	G5	DP	FL grid output (G5)
25	G4	DP	FL grid output (G4)
26	G3	DP	FL grid output (G3)
27	G2	DP	FL grid output (G2)
28	G1	DP	FL grid output (G1)
29	9k/10k	I	Channel step frequency 9kHz (H)/10kHz (L) switching
30	XTAL	O	Connected to the 4.19MHz ceramic resonator
31	EXTAL	O	
32	$\overline{RST}$	I/O	RESET input
33	N.C.	–	Not connect
34	Vdd	5V	Connected to +5V supply voltage
35	KEY out	O	KEY MATRIX output
36	KEY out	O	KEY MATRIX output
37	KEY out	O	KEY MATRIX output
38	KEY out	O	KEY MATRIX output
39	KEY out	O	KEY MATRIX output
40	KEY out	O	KEY MATRIX output
41	KEY out	O	KEY MATRIX output
42	KEY out	O	KEY MATRIX output
43	N.C.	–	Not connect
44	X0/CK	O	SERIAL (FUNCTION/PLL) CLK output
		I	Destination 91' model (H)/90' model (L) switching
45	X1/DATA	O	SERIAL (FUNCTION/PLL) DATA output
		I	Not used as input port
46	X2	I	Destination VSX (H)/ASX (L) switching
47	MUTE	O	MUTING ON (L)/OFF (H) output
48	FUNC ST	O	FUNCTION STB output
49	CE	O	PLL CE output
50	TUNER MUTE	O	TUNER MUTE output
51	STEREO	O	STEREO signal input
52	STOP	O	STOP signal input
53	KEY IN	O	KEY MATRIX input
54	KEY IN	O	KEY MATRIX input
55	KEY IN	O	KEY MATRIX input
56	KEY IN	O	KEY MATRIX input
57	KEY IN	O	KEY MATRIX input
58	KEY IN	O	KEY MATRIX input
59	S.S	O	SIMULATED STEREO ON (L)/OFF (H) output (Not used ; NC)
60	N.C.	O	Not used (OPEN)
61	WP	I	WAKE UP input
62	RMC	I	REMOCON input
63	SIMU-LATE	O	SIMULATED SURROUND output (Not used ; NC)
64	DOLBY	O	DOLBY SURROUND output (Not used ; NC)
65	CE (ADM)	O	DELAY CE output (Not used ; NC)
66	ST (9154)	O	REAR LEVEL STB output (Not used ; NC)
67	VDP/VCR	O	VIDEO input VDP (L)/VCR (H) switching output (Not used ; NC)
68	VIDEO-MUTE	O	VIDEO MUTE output (Not used ; NC)
69	DIMMER	O	SLEEP DIMMER output (Not used ; NC)
70	RY	O	REAR POWER RELAY output (Not used ; NC)
71	Vss	–	GND
72	N.C.	O	Not used (OPEN)
73	N.C.	–	Not connect
74	TEX	I	Not used (Connected to GND)
75	Vref	I	Connected to VDD
76	Vfdp	I	–24V negative input voltage for FDP
77	AC RELAY	N	AC RELAY output
78	VOL DOWN	N	VOLUME DOWN output (electrically acitivated)
79	VOL UP	N	VOLUME UP output (electrically acitivated)
80	VOL IND	N	VOLME indicator light (H)/light off (L) (Not used ; NC)

I : CMOS input
O : CMOS output
N : Nch open drain output
P : Pch open drain output
UN : Nch open drain output with pull–up resistor
DP : Pch open drain output with pull–down resistor
UI : CMOS input with pull–up resistor
DI : CMOS input with pull–down resistor

SX-757

8. FOR HB AND HEWZ TYPES

CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

The SX−757/HB and HEWZ types are the same as the SX−757/HE type with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		SX−757/HE type	SX−757/HB type	SX−757/HEWZ type	
	COMPLEX assembly	AWZ3006	AWZ3006	AWZ2999	
	SP SWITCH assembly	Non supply	Non supply	Non supply	
	LINE FILTER assembly	.....	.....	Non supply	
	SP TERMINAL assembly	Non supply	Non supply	Non supply	
⚠	C1 Power capacitor (0.022/AC400V)	ACG1030	ACG1030	.....	
⚠	C1 Power capacitor (0.1/250V)	.....	.....	ACE−507	
⚠	FU1 Fuse (T2.5A/250V)	AEK−403	AEK−512	AEK−403	
⚠	FU3,FU4 Fuse (T800mA/250V)	AEK−031	AEK−507	AEK−031	
⚠	AC Power cord	ADG1021	ADG−063	ADG1021	
	FM antenna	ADH1004	ADH1004	.....	
	FM antenna assembly	.....	.....	ADH1002	
	Operating instructions (English/German/French/Italian/ Dutch/Swedish/Portguese/Spanish)	ARE1168	.....	.....	
	Operating instructions (English)	.....	ARB1241	.....	
	Operating instructions (German)	.....	.....	ARC1204	

COMPLEX assembly (AWZ2999)

The COMPLEX assembly (AWZ2999) is the same as the COMPLEX assembly (AWZ3006) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3006	AWZ2999	
	Q111	.....	2SC1740S	
	F101,F102	ATF−126	.....	
	F101	.....	ATF−119	
	F102	.....	ATF−107	
	F112	.....	ATF−146	
	L561,L562	ATH1004	ATH1009	
	C126,C203,C204	.....	CKDYB681K50	
	C127	.....	CEAS100M50	
	C151	CEANP4R7M35	CEAS100M50	

Mark	Symbol & Description	Part No.		Remarks
		AWZ3006	AWZ2999	
	C167	CCCSL101J50	CCCSL221J50	
	C205−C224	.....	CKDYB391K50	
	C225,C226	.....	CKDYB821K50	
	C527,C528	.....	CCCSL221J50	
	C555,C556,C558	.....	CEAS2R2M100	
	R126	.....	RD1/8PM224J	
	R127	.....	RD1/8PM473J	
	R128,R130	.....	RD1/8PM472J	
	R129	.....	RD1/8PM222J	
	R152	RD1/8PM913J	RD1/8PM753J	
	R159,R160	RD1/8PM123J	RD1/8PM392J	
	R161,R162	RD1/8PM822J	RD1/8PM183J	
	Antenna terminal 4−P	AKA1010	AKA1012*	*(2−P)
	3 serial F.E. module assembly	AXQ1003	.....	
	4 serial F.E. module assembly	.....	AXQ1004	

SP TERMINAL assembly (HEWZ type)

The SP TERMINAL assembly (HEWZ type) is the same as the SP TERMINAL assembly (HE type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE type	HEWZ type	
	L951−L954	.....	ATH−133	
	C951−C954	.....	CKDYF103Z50	
	C955−C958	.....	CKDYB681K50	
	C971	CKDYX473M25	CKDYF473Z50	
	R951−R954	.....	RD1/2PMF101J	
	R955−R958	.....	RD1/4PMF100J	

SP SWITCH assembly (HEWZ type)

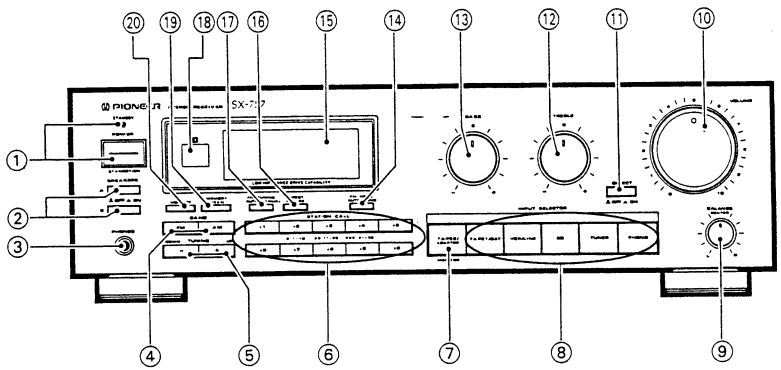
The SP SWITCH assembly (HEWZ type) is the same as the SP SWITCH assembly (HE type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE type	HEWZ type	
	C571,C572	.....	CKDYB392K50	
	R573,R574	.....	RS1PMF681J	

LINE FILTER assembly (HEWZ type only)

Mark	No.	Description	Parts No.
COIL			
	L701	Line filter	ATF−151

9. PANEL FACILITIES



① POWER (STANDBY/ON) switch/indicator

This is the switch for electric power.

ON: When set to the ON position, power is supplied and the unit becomes operational.

STANDBY: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.
When the STANDBY indicator lights, the unit is in STANDBY.

- The accessory remote control unit can also be used to operate the STANDBY/ON and SLEEP functions of this switch.
- When not using the unit for a long period, disconnected the power cord.

NOTE:
When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.

② SPEAKERS switches (▟ OFF, ▁ ON)

These are used to select the speaker through which you wish to listen.
A: When the speakers connected to A terminals are in use.
B: When the speakers connected to B terminals are in use.
- Turn both A and B speakers to the OFF position when only headphones are in use.

③ PHONES jack

Connect the plug on your headphones to this jack. To listen to a program through the headphones, set both SPEAKERS A and B switches to the OFF position.

④ BAND Selector switches

These switches are used to select either AM or FM reception.
AM: Push this switch for AM reception.
FM: Push this switch for FM reception.

⑤ TUNING switches (DOWN, UP)

UP: The FM or AM band is scanned in the direction of increasing frequency.
DOWN: The opposite operation to that of the UP switch takes place.

⑥ STATION CALL switches

These switches are used to preset and recall desired broadcasting stations.

⑦ TAPE 2/ADAPTOR MONITOR switch

Switch on when using a cassette deck or audio adaptor component connected to the TAPE 2 jacks.

⑧ INPUT SELECTOR switches

Use to select playback source.
[TAPE 1 /DAT] — Press when listening to tape playback with the cassette deck 1 or digital audio tape deck.
[VCR/LINE] — Press when listening to programs from a component connected to the VCR/LINE terminals.
[CD] — Press when listening to compact disc playback on a CD player.
[TUNER] — Press when listening to AM or FM broadcasts.
[PHONO] — Press when listening to record playback on a turntable.

⑨ BALANCE control

Should normally be left in the center position. Adjust balance if the sound is louder from one of the speakers. If the right side is louder, turn toward the L position and if the left side is louder, turn toward the R position.

NOTE:
- *This control does not operate when the DIRECT switch is in the ON position.*

⑩ VOLUME control

Use to adjust volume level.

⑪ DIRECT switch (▟ OFF, ▁ ON)

Use this switch when you do not wish to pass the output from input terminal through the various frequency adjusting circuits (TREBLE, BASS). When this switch is on, the BALANCE control does not operate.

⑫ TREBLE tone control

Use to adjust high-frequency tone. The center position is the flat (normal) position. When turned to the right, high-frequency tones are emphasized; when turned to the left, high-frequency tones are de-emphasized.

NOTE:
- *At volume levels lower than "4" the set tone control effect is obtained.*
  At volume levels higher than "4" the effect becomes increasingly weaker.
  Near maximum volume, there is no effect.
- *This control does not operate when the DIRECT switch is in the ON position.*

⑬ BASS tone control

Use to adjust the low-frequency tone. The center position is the flat (normal) position. When turned to the right, low-frequency tones are emphasized; when turned to the left, low-frequency tones are de-emphasized.

NOTE:
- *At volume levels lower than "4" the set tone control effect is obtained.*
  At volume levels higher than "4" the effect becomes increasingly weaker.
  Near maximum volume, there is no effect.
- *This control does not operate when the DIRECT switch is in the ON position.*

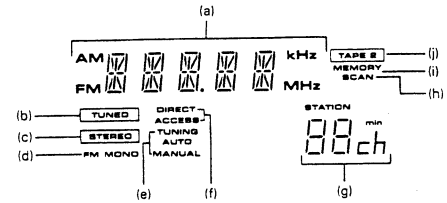
⑭ FM MODE AUTO/MONO selector switch

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the FM MONO indicator is lit.
Auto stereo mode:
Normally leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo sound.
Monaural mode:
When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

NOTE:
This switch has no effect on reception of AM broadcasts.

⑮ OPERATION DISPLAY panel

(a) Indicates the function or frequency or SLEEP.
(b) TUNED indicator
(c) FM STEREO indicator
(d) FM MONO indicator
(e) TUNING AUTO/MANUAL indicator
(f) DIRECT ACCESS tuning indicator
(g) Indicates channel, STATION CALL number or sleep time.
(h) SCAN indicator
(i) MEMORY indicator
(j) TAPE 2 monitor indicator.



⑯ DIRECT ACCESS tuning switch

When this switch is pressed, the STATION CALL switches function as ten-key number switches for direct input of the desired reception frequency. Press again to cancel this mode.
If the input station falls outside of the receiver's tuning range, the display section will display a message: "UPPER" if the frequency is too high and "LOWER" if it is too low.

⑰ FM TUNING AUTO/MANUAL switch

Works during FM reception.
Use this switch to select either the AUTO mode or the MANUAL mode.
When the "AUTO" indicator is lit, the receiver is in the AUTO mode.

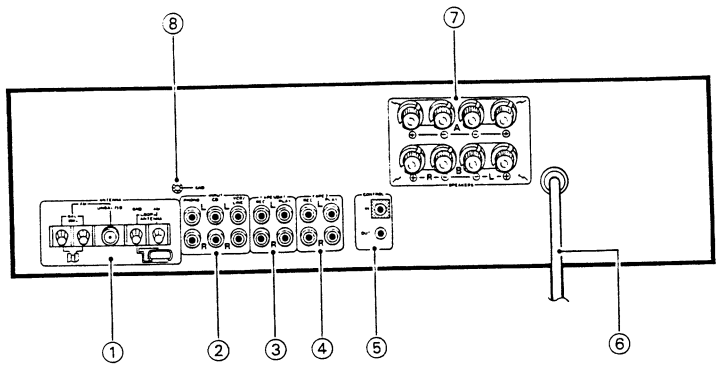
⑱ Remote sensor window

⑲ MEMORY SCAN switch

This switch is used for station memory scan.

⑳ MEMORY switch

When the unit is in the frequency display mode, pressing this switch will result in the memorization of the current broadcast band, reception frequency, and FM AUTO/MONO mode.



① FM/AM ANTENNA terminals
Use these antenna terminals for receiving FM and AM broadcasts.

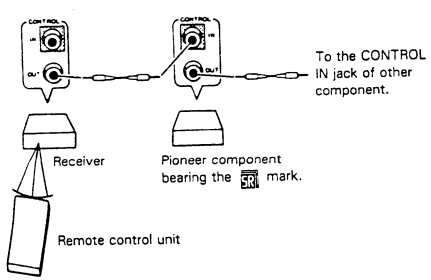
② INPUT jacks
PHONO ..... Connect to the output cables from a turntable.
CD..... Connect to the output jacks of a compact disc player.
VCR/LINE ..... Connect to the output jacks of a video cassette recorder, etc.

③ TAPE 1/DAT jacks
Connect these jacks to the cassette deck or digital audio tape deck.

④ TAPE 2 jacks
Connect these jacks to the cassette deck.

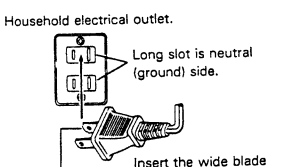
⑤ CONTROL IN/OUT jacks
IN: Connect this jack to other Pioneer components when using those components to control this unit.
OUT: Connect this jack to other Pioneer components when using the remote control of this unit to control the other components.

NOTE:
The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected.



⑥ Power cord

⑦ SPEAKERS terminals
A: Connect to a first set of speakers.
B: Connect to a second set of speakers.

⑧ GND terminal
Connect to the ground lead of a turntable.

CONNECTING THE POWER CORD (For U.S.A. and Canadian models)
Household electrical outlets are provided with specific polarity, alive side and a neutral (ground) side. This unit utilizes such polarity in order to improve sound quality. As shown in the illustration, be sure to insert the power plug so that its blades match the width of slots in the outlet.